

L Number	Hits	Search Text	DB	Time stamp
1	25191	piperazine	USPAT	2003/08/28 15:19
2	2865	ferrocene	USPAT	2003/08/28 15:19
4	0	piperazine adj ferrocene	USPAT	2003/08/28 15:19
5	0	piperazine adj ferrocene	USPAT	2003/08/28 15:20
6	13	piperazine same ferrocene	USPAT	2003/08/28 15:20
3	199	piperazine and ferrocene	USPAT	2003/08/28 15:33
7	0	ferrocenecarboxamidopropyl	USPAT	2003/08/28 15:34
8	0	ferrocenecarboxamido	USPAT	2003/08/28 15:35
9	0	ferrocenecarboxami?	USPAT	2003/08/28 15:35
10	2	ferrocene adj carboxamide	USPAT	2003/08/28 16:02
11	3	naphthalene adj imide	USPAT	2003/08/28 16:16
12	114	(556/145).CCLS.	USPAT	2003/08/28 16:26
13	535	(544/361).CCLS.	USPAT	2003/08/28 16:26

L Number	Hits	Search Text	DB	Time stamp
1	25191	piperazine	USPAT	2003/08/28 15:19
2	2865	ferrocene	USPAT	2003/08/28 15:19
4	0	piperazine adj ferrocene	USPAT	2003/08/28 15:19
5	0	piperazine adj ferrocene	USPAT	2003/08/28 15:20
6	13	piperazine same ferrocene	USPAT	2003/08/28 15:20
3	199	piperazine and ferrocene	USPAT	2003/08/28 15:33
7	0	ferrocenecarboxamidopropyl	USPAT	2003/08/28 15:34
8	0	ferrocenecarboxamido	USPAT	2003/08/28 15:35
9	0	ferrocenecarboxami?	USPAT	2003/08/28 15:35
10	2	ferrocene adj carboxamide	USPAT	2003/08/28 16:02
11	3	naphthalene adj imide	USPAT	2003/08/28 16:16
12	114	(556/145).CCLS.	USPAT	2003/08/28 16:26
13	535	(544/361).CCLS.	USPAT	2003/08/28 16:26

L Number	Hits	Search Text	DB	Time stamp
1	3	threading adj intercalator	USPAT	2003/09/02 13:05
2	10	threading adj intercalator	USPAT; US-PGPUB; EPO; JPO	2003/09/02 13:05

L Number	Hits	Search Text	DB	Time stamp
1	3	threading adj intercalator	USPAT	2003/09/02 13:05
2	10	threading adj intercalator	USPAT; US-PGPUB; EPO; JPO	2003/09/02 13:05

L Number	Hits	Search Text	DB	Time stamp
1	25191	piperazine	USPAT	2003/08/28 15:19
2	2865	ferrocene	USPAT	2003/08/28 15:19
4	0	piperazine adj ferrocene	USPAT	2003/08/28 15:19
5	0	piperazine adj ferrocene	USPAT	2003/08/28 15:20
6	13	piperazine same ferrocene	USPAT	2003/08/28 15:20
3	199	piperazine and ferrocene	USPAT	2003/08/28 15:33
7	0	ferrocenecarboxamidopropyl	USPAT	2003/08/28 15:34
8	0	ferrocenecarboxamido	USPAT	2003/08/28 15:35
9	0	ferrocenecarboxami?	USPAT	2003/08/28 15:35
10	2	ferrocene adj carboxamide	USPAT	2003/08/28 16:02
11	3	naphthalene adj imide	USPAT	2003/08/28 16:16
12	114	(556/145).CCLS.	USPAT	2003/08/28 16:18

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NEWS	11	Apr 14	MEDLINE Reload
NEWS	12	Apr 17	Polymer searching in REGISTRY enhanced
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NEWS	15	Apr 28	RDISCLOSURE now available on STN
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NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS	19	May 19	Simultaneous left and right truncation added to WSCA
NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25	HSDB has been reloaded
NEWS	25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS	26	Jul 21	Identification of STN records implemented
NEWS	27	Jul 21	Polymer class term count added to REGISTRY
NEWS	28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	36	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	37	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right

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Truncation

NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

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FILE 'HOME' ENTERED AT 16:53:43 ON 28 AUG 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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0.21

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STRUCTURE FILE UPDATES: 26 AUG 2003 HIGHEST RN 573925-63-0

DICTIONARY FILE UPDATES: 26 AUG 2003 HIGHEST RN 573925-63-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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PROPERTIES for more information. See STNnote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\STNEXP4\QUERIES\099278522.str

09/927,852

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L1 STRUCTURE UPLOADED

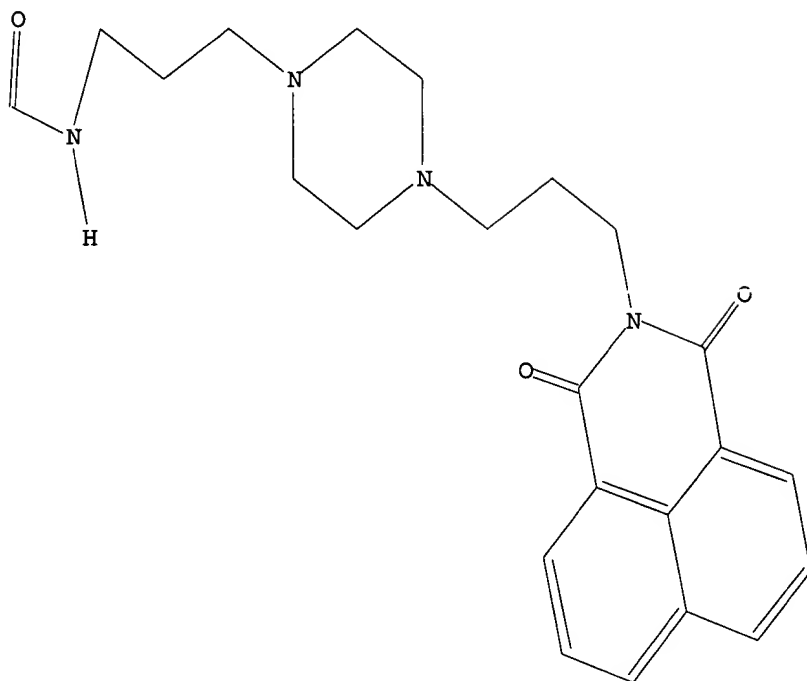
=> que L1

L2 QUE L1

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 16:54:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 8 TO 329

PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> s l1 sss ful

FULL SEARCH INITIATED 16:54:36 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 138 TO ITERATE

100.0% PROCESSED 138 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

09/927,852



V. Balasubramanian

L4 6 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

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FULL ESTIMATED COST

148.15

148.36

FILE 'CAPLUS' ENTERED AT 16:54:43 ON 28 AUG 2003

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FILE COVERS 1907 - 28 Aug 2003 VOL 139 ISS 9

FILE LAST UPDATED: 27 Aug 2003 (20030827/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l4

L5 23 L4

=> d l5 1-23 bib hitstr

L5 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:73772 CAPLUS

DN 139:79655

TI Direct detection of single nucleotide polymorphism (SNP) with genomic DNA by the ferrocenyl naphthalene diimide-based electrochemical hybridization assay (FND-EHA)

AU Nojima, Takahiko; Yamashita, Kenichi; Takagi, Atsuko; Takagi, Makoto; Ikeda, Yasuyuki; Kondo, Hiroki; Takenaka, Shigeori

CS Department of Applied Chemistry, School of Engineering, Kyushu University, Fukuoka, 812-8581, Japan

SO Analytical Sciences (2003), 19(1), 79-83

CODEN: ANSCEN; ISSN: 0910-6340

PB Japan Society for Analytical Chemistry

DT Journal

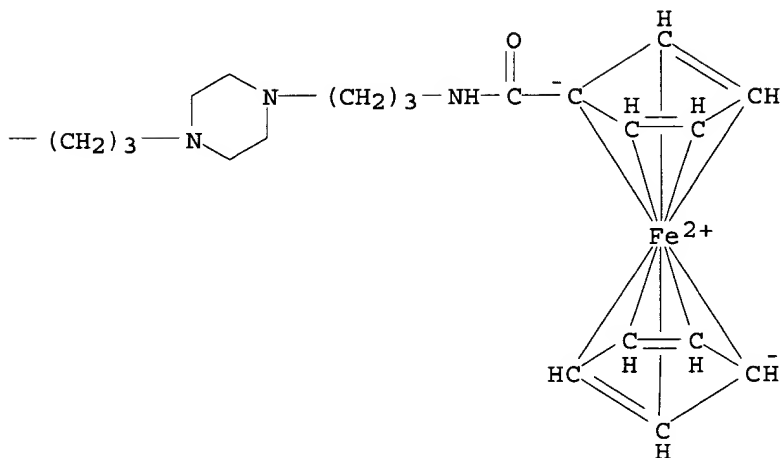
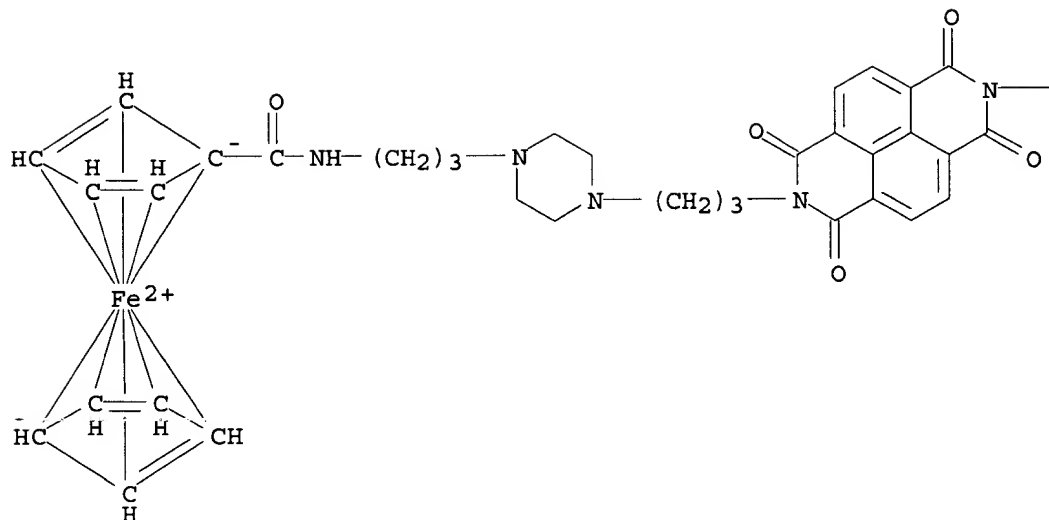
LA English

IT 209473-66-5

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(direct detection of single nucleotide polymorphism (SNP) with genomic DNA by ferrocenyl naphthalene diimide-based electrochem. hybridization assay (FND-EHA))

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:837519 CAPLUS  
DN 137:333698  
TI Ferrocenyl naphthalene diimide-based electrochemical hybridization assay  
for a heterozygous deficiency of the lipoprotein lipase gene  
AU Yamashita, Kenichi; Takagi, Atsuko; Takagi, Makoto; Kondo, Hiroki; Ikeda,  
Yasuyuki; Takenaka, Shigeori  
CS Department of Applied Chemistry Faculty of Engineering, Kyushu University,

V. Balasubramanian

Fukuoka, 812-8581, Japan

SO Bioconjugate Chemistry (2002), 13(6), 1193-1199

CODEN: BCCHES; ISSN: 1043-1802

PB American Chemical Society

DT Journal

LA English

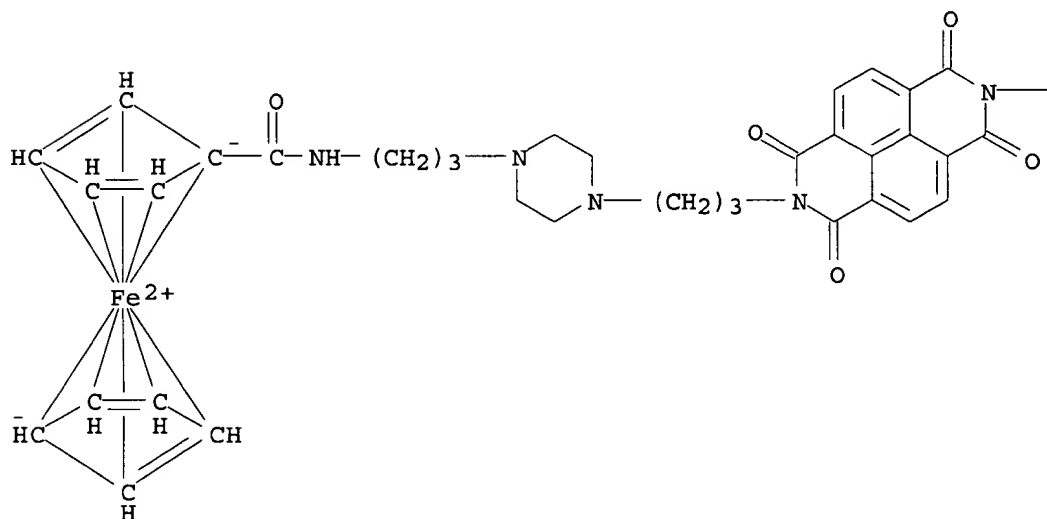
IT 209473-66-5

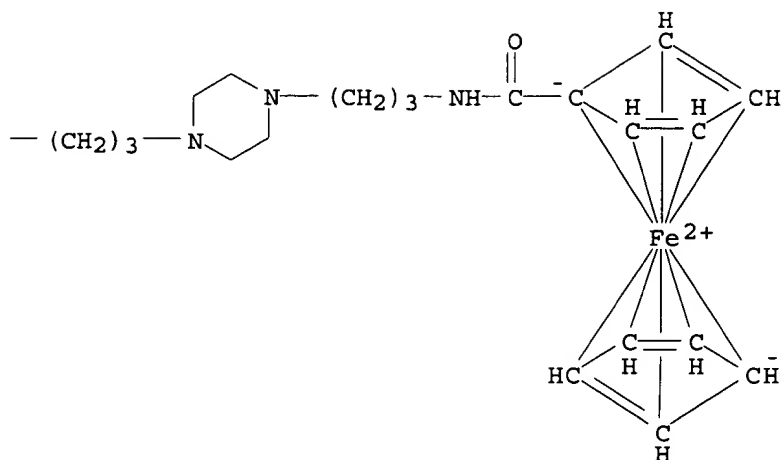
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(FND, as hybridization indicator; ferrocenyl naphthalene diimide  
(FND)-based electrochem. hybridization assay for heterozygous  
deficiency of lipoprotein lipase gene)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-  
tetraoxobenzo[1mn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A

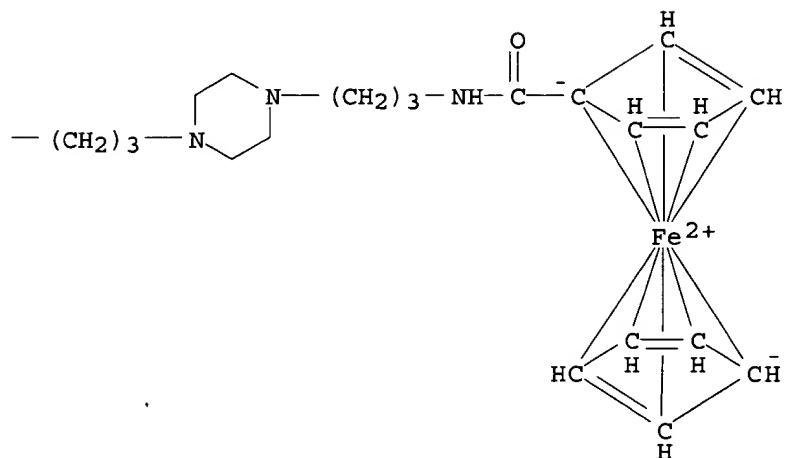
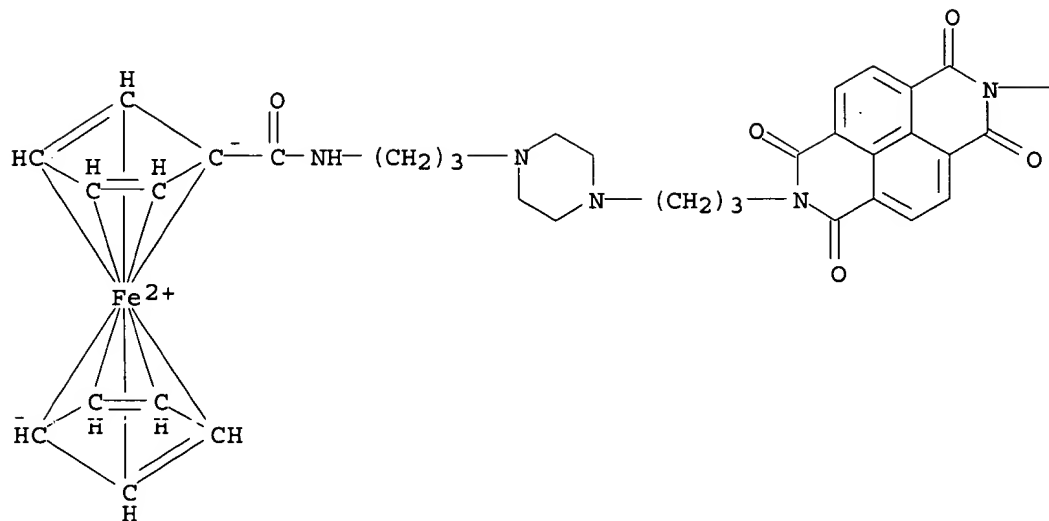




RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

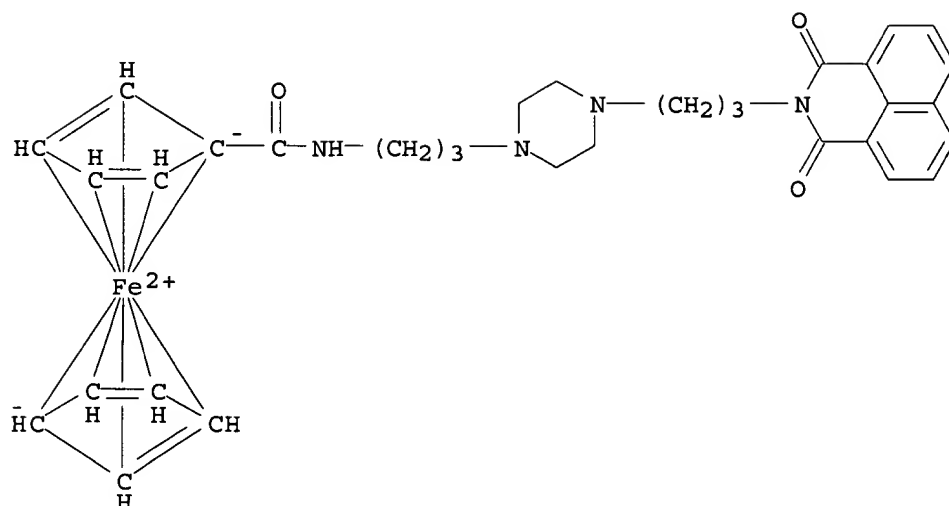
L5 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:658465 CAPLUS  
DN 137:197819  
TI Intercalator suitable for electrochemical detection of double-stranded  
DNAs and process for preparation thereof  
IN Pak, Youngmi Kim; Pak, James Jungho; Kim, Sanghee; Lee, Hong-Kyu  
PA S. Korea  
SO U.S. Pat. Appl. Publ., 9 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002117396	A1	20020829	US 2001-927852	20010810
	WO 2002066679	A1	20020829	WO 2001-KR1321	20010803
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	KR 2001-8467	A	20010220		
OS	CASREACT 137:197819				
IT	209473-66-5P 446833-70-1P				
	RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (intercalator suitable for electrochem. detection of double-stranded DNAs and process for prepn. thereof)				
RN	209473-66-5 CAPLUS				
CN	Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)				



RN 446833-70-1 CAPLUS

CN Ferrocene, [[[3-[4-[3-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)propyl]-1-piperazinyl]propyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

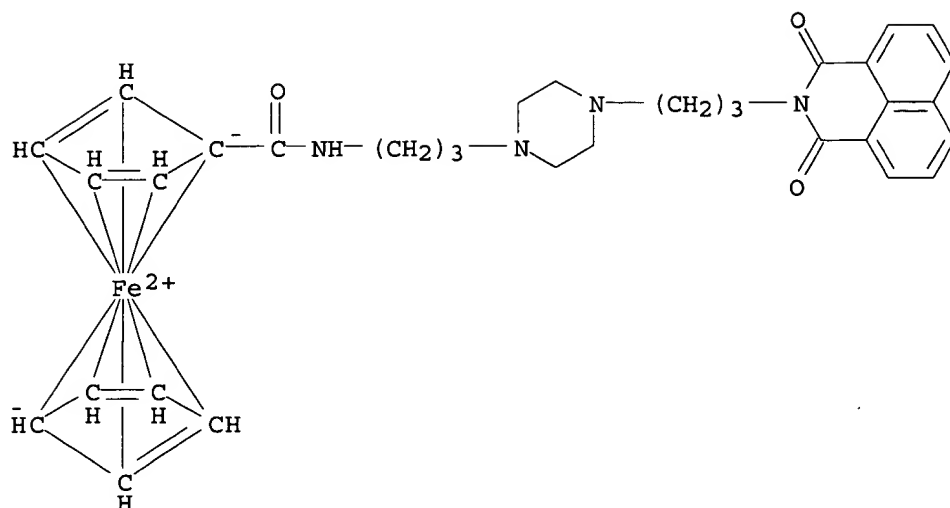


L5 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:615894 CAPLUS  
 DN 137:181937  
 TI Mixed intercalator and electrochemical detection of DNA using same  
 IN Pak, Youngmi Kim; Pak, James Jungho; Kim, Sanghee; Lee, Hong-Kyu  
 PA Mitocon Ltd., S. Korea  
 SO PCT Int. Appl., 17 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002063041	A1	20020815	WO 2001-KR1320	20010803
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003039975	A1	20030227	US 2001-927669	20010810
PRAI	KR 2001-5667	A	20010206		

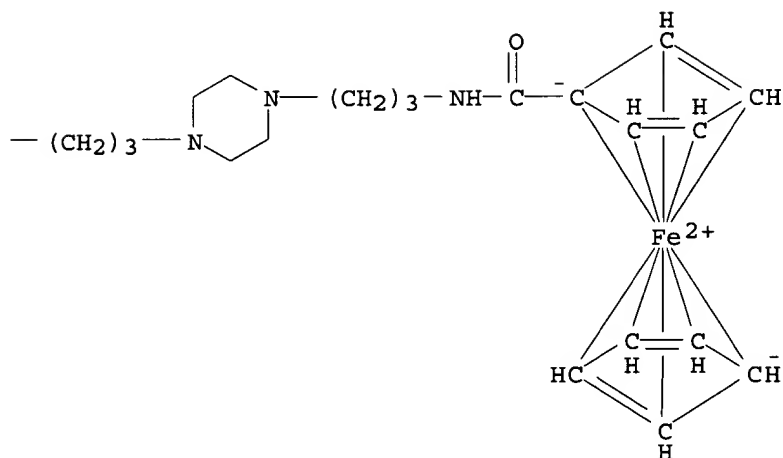
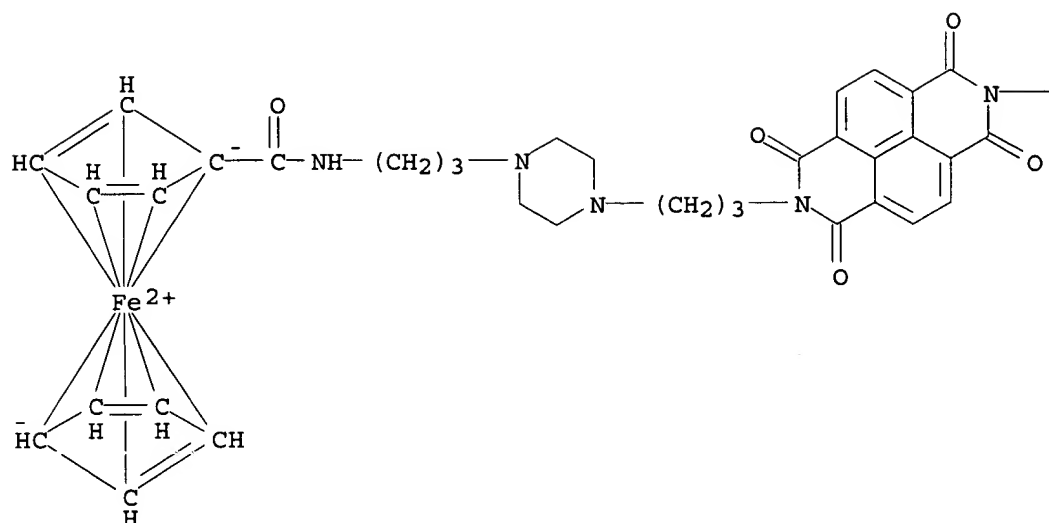
IT **446833-70-1**  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (mixed intercalator and electrochem. detection of DNA using same)  
 RN 446833-70-1 CAPLUS  
 CN Ferrocene, [[3-[4-[3-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)propyl]-1-piperazinyl]propyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

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RE.CNT 4      THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5    ANSWER 5 OF 23    CAPLUS    COPYRIGHT 2003 ACS on STN  
AN    2002:513808    CAPLUS  
DN    137:305331  
TI    Electrochemical Detection of Nucleic Base Mismatches with Ferrocenyl  
      Naphthalene Diimide  
AU    Yamashita, Kenichi; Takagi, Makoto; Kondo, Hiroki; Takenaka, Shigeori  
CS    Department of Applied Chemistry, Faculty of Engineering, Kyushu  
      University, Fukuoka, 812-8581, Japan  
SO    Analytical Biochemistry (2002), 306(2), 188-196  
      CODEN: ANBCA2; ISSN: 0003-2697  
PB    Elsevier Science  
DT    Journal  
LA    English  
IT    209473-66-5  
      RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
      (Uses)  
      (electrochem. detection of nucleic base mismatches using ferrocenyl  
      naphthalene diimide as hybridization indicator and probe  
      DNA-immobilized electrode)  
RN    209473-66-5    CAPLUS  
CN    Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-  
      tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
      piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:249100 CAPLUS  
DN 137:150751  
TI Electrochemical analysis of single nucleotide polymorphisms of p53 gene  
AU Miyahara, Hiroyoshi; Yamashita, Kenichi; Kanai, Masayuki; Uchida,  
Kazuhiko; Takagi, Makoto; Kondo, Hiroki; Takenaka, Shigeori  
CS Faculty of Engineering, Department of Applied Chemistry, Kyushu  
University, Fukuoka, 812-8581, Japan  
SO Talanta (2002), 56(5), 829-835



V. Balasubramanian

CODEN: TLNTA2; ISSN: 0039-9140

PB Elsevier Science B.V.

DT Journal

LA English

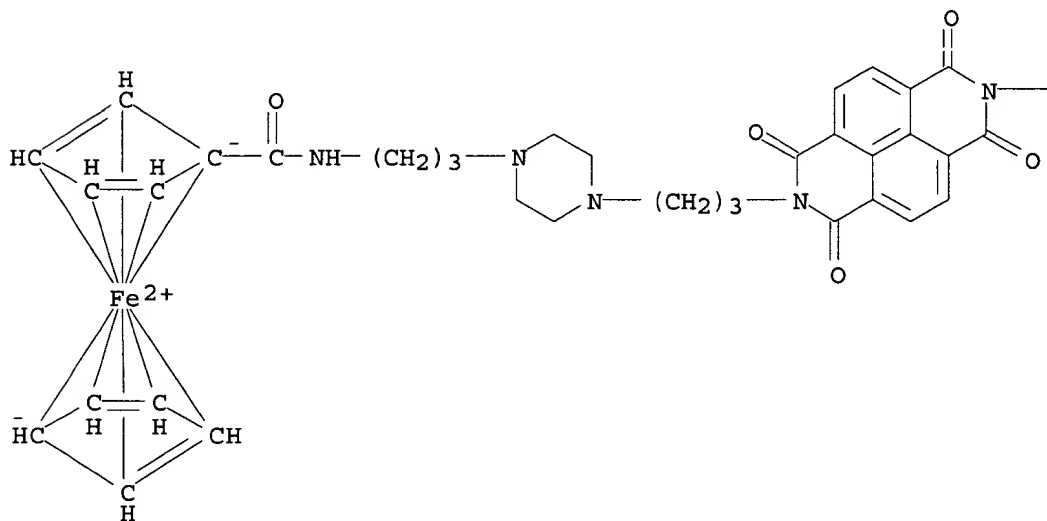
IT 209473-66-5

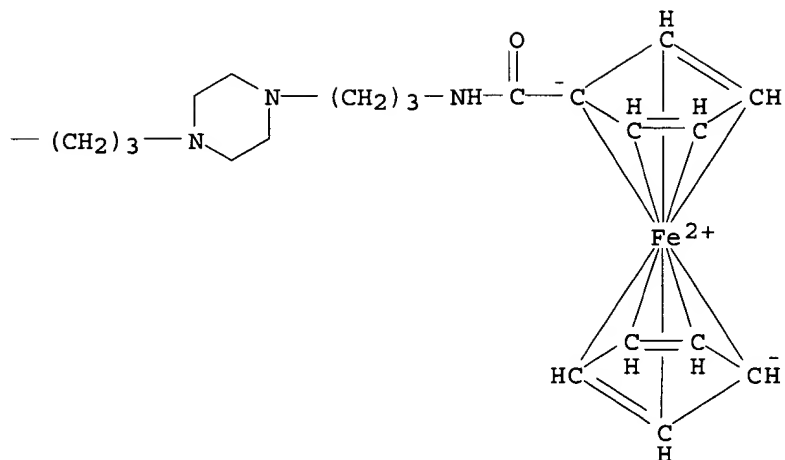
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses) (intercalation agent; electrochem. anal. of single nucleotide polymorphisms of p53 gene)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A





RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:924280 CAPLUS

DN 136:49315

TI Electrochemical detection of nucleic acids using PNA covalently immobilized on electrodes

IN Makino, Yoshihiko; Abe, Yoshihiko; Ogawa, Masashi

PA Fuji Photo Film Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 20 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001053522	A1	20011220	US 2001-845403	20010430
	JP 2002017352	A2	20020122	JP 2001-134685	20010501
PRAI	JP 2000-130090	A	20000428		

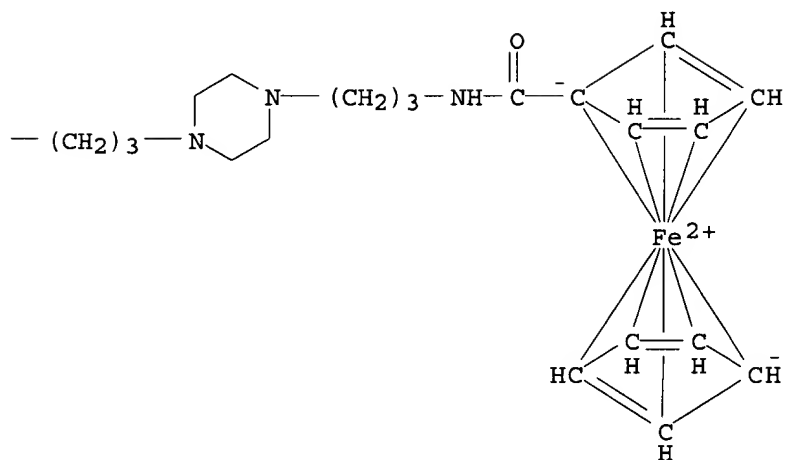
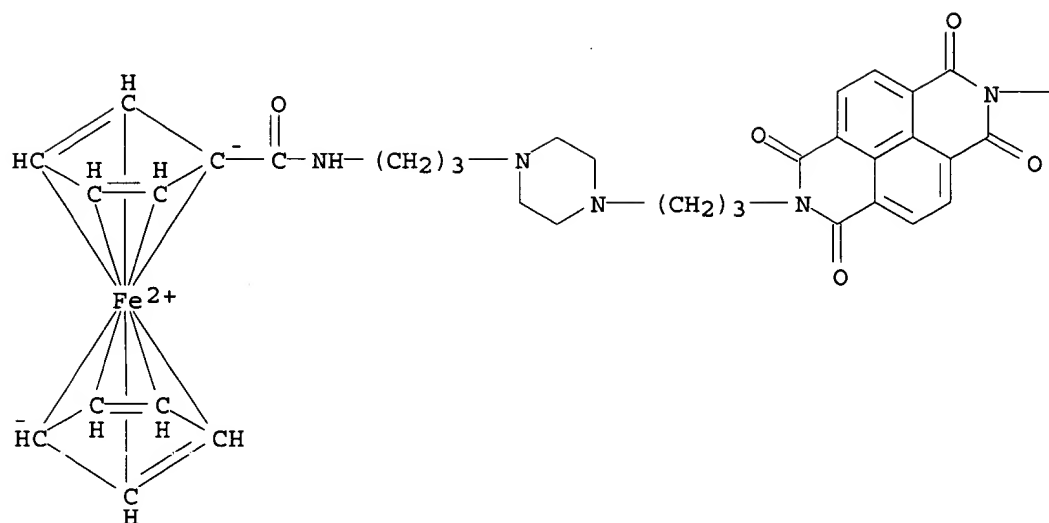
OS MARPAT 136:49315

IT 209473-66-5

RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(electrochem. detection of nucleic acids using PNA covalently immobilized on electrodes)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-bis[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[1,3,6,8-tetraoxa]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:878997 CAPLUS  
 DN 136:163548  
 TI Ferrocenyl naphthalene diimide can bind to DNA.cntdot.RNA hetero duplex:  
 potential use in an electrochemical detection of mRNA expression  
 AU Sato, Shinobu; Fujii, Satoshi; Yamashita, Kenichi; Takagi, Makoto; Kondo,  
 Hiroki; Takenaka, Shigeori  
 CS Faculty of Engineering, Department of Applied Chemistry, Kyushu  
 University, Fukuoka, 812-8581, Japan  
 SO Journal of Organometallic Chemistry (2001), 637-639, 476-483  
 CODEN: JORCAI; ISSN: 0022-328X

V. Balasubramanian

PB Elsevier Science S.A.

DT Journal

LA English

IT 396719-64-5P

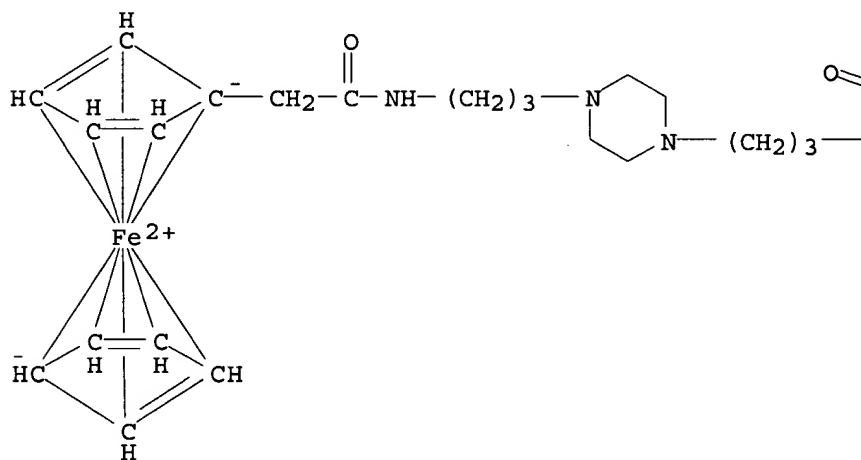
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)

(ferrocenyl naphthalene diimide used in electrochem. detection of mRNA expression)

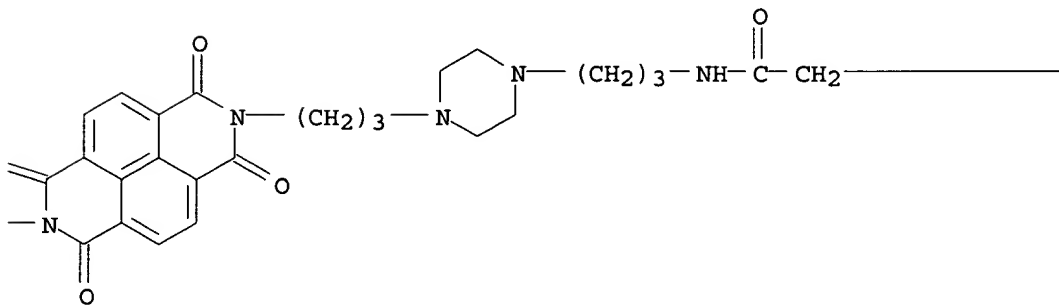
RN 396719-64-5 CAPLUS

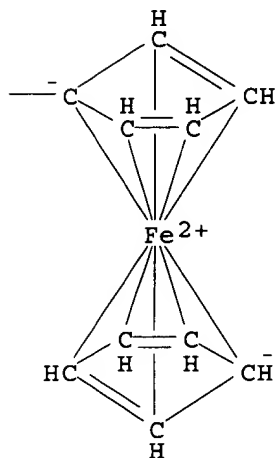
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis[3,1-propanediyl-4,1-piperazinediyl-3,1-propanediylimino(2-oxo-2,1-ethanediyl)]]bis- (9CI) (CA INDEX NAME)

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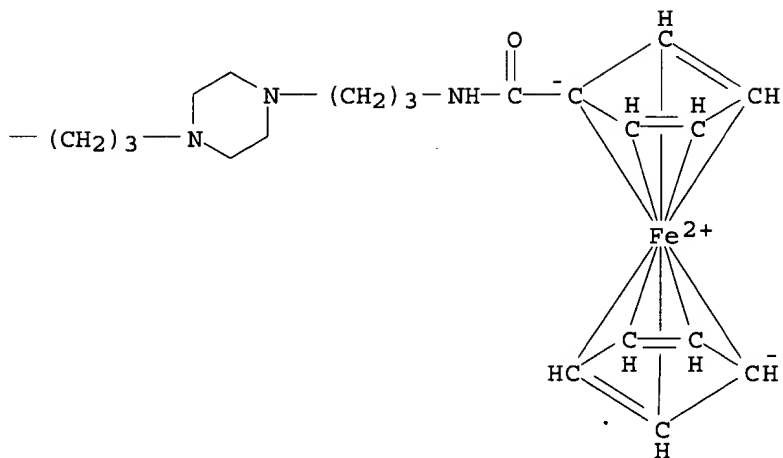
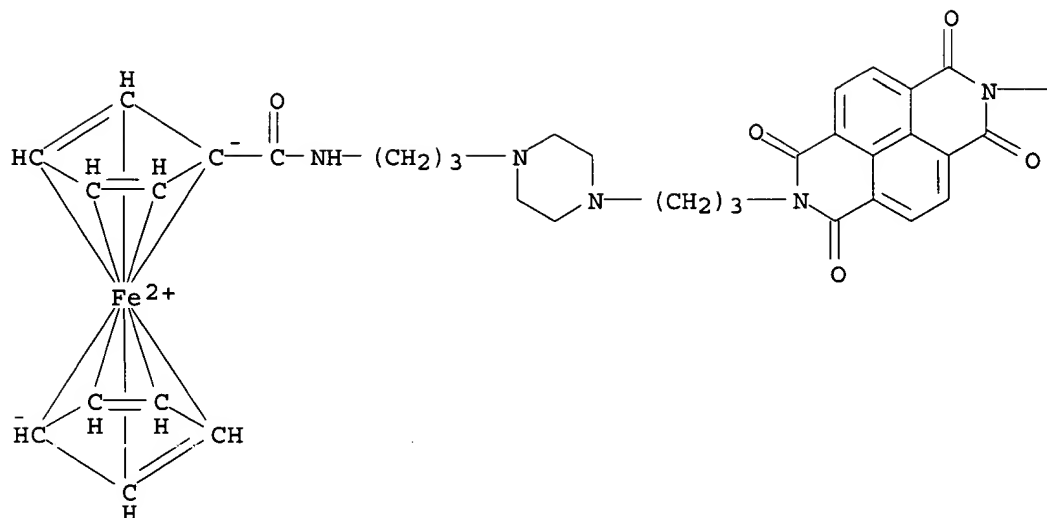
PAGE 1-B





RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:675281 CAPLUS  
DN 135:368830  
TI Base mutation analysis by a ferrocenyl naphthalene diimide derivative  
AU Takenaka, Shigeori; Miyahara, Hiroyoshi; Yamashita, Kenichi; Takagi, Makoto; Kondo, Hiroki  
CS Department of Applied Chemistry, Faculty of Engineering, Kyushu University, Fukuoka, 812-8581, Japan  
SO Nucleosides, Nucleotides & Nucleic Acids (2001), 20(4-7), 1429-1432  
CODEN: NNNAFY; ISSN: 1525-7770  
PB Marcel Dekker, Inc.  
DT Journal  
LA English  
IT 209473-66-5  
RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)  
(base mutation anal. by ferrocenyl naphthalene diimide deriv.)  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:587758 CAPLUS  
DN 136:289379  
TI Electrochemical detection of DNA hybridization  
AU Takenaka, Shigeori  
CS Graduate School of Engineering, Kyushu University, Japan  
SO DNA Chipu Oyo Gijutsu (2000), 76-87. Editor(s): Matsunaga, Tadashi.  
Publisher: Shi Emu Shi, Tokyo, Japan.  
CODEN: 69BRM3

V. Balasubramanian

DT Conference; General Review

LA Japanese

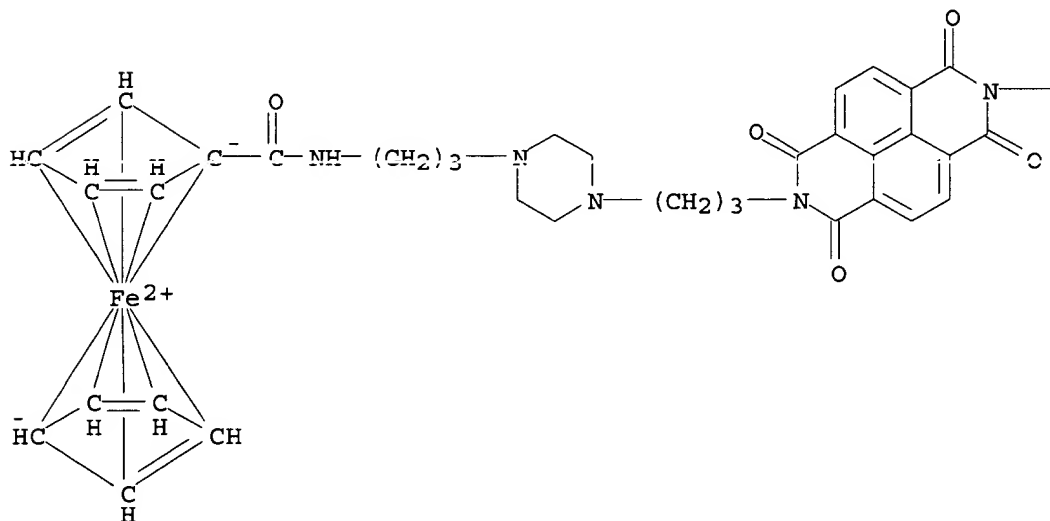
IT 209473-66-5

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(electrochem. detection of DNA hybridization)

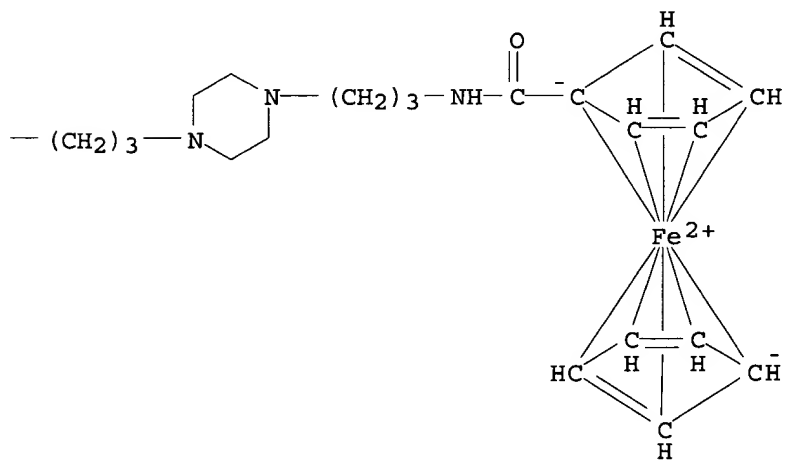
RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A



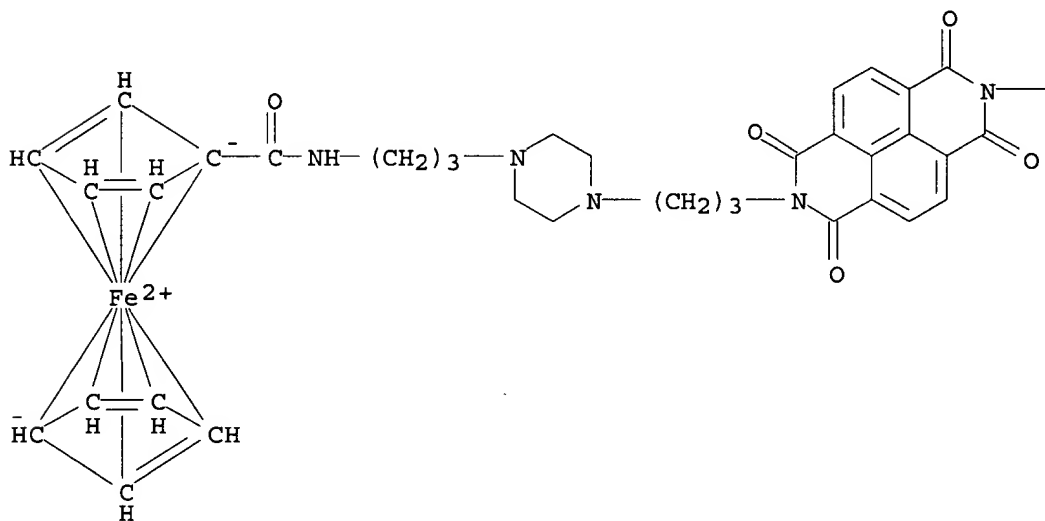
PAGE 1-B



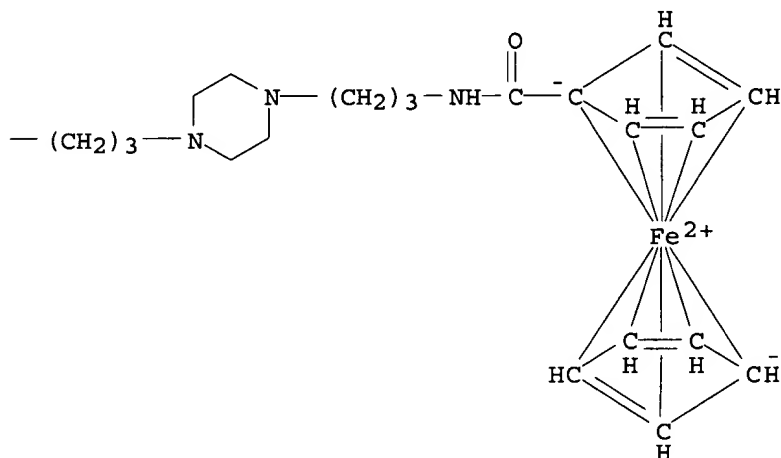
V. Balasubramanian

AN 2001:569276 CAPLUS  
DN 136:211374  
TI Visualization of DNA microarrays by scanning electrochemical microscopy (SECM)  
AU Yamashita, Kenichi; Takagi, Makoto; Takenaka, Shigeori; Uchida, Kazuhiko; Kondo, Hiroki  
CS Department of Applied Chemistry, Faculty of Engineering, Kyushu University, Fukuoka, 812-8581, Japan  
SO Analyst (Cambridge, United Kingdom) (2001), 126(8), 1210-1211  
CODEN: ANALAO; ISSN: 0003-2654  
PB Royal Society of Chemistry  
DT Journal  
LA English  
IT 209473-66-5  
RL: ARG (Analytical reagent use); DEV (Device component use); ANST (Analytical study); USES (Uses)  
(as hybridization indicator; visualization of DNA microarrays by scanning electrochem. microscopy (SECM))  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,9]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

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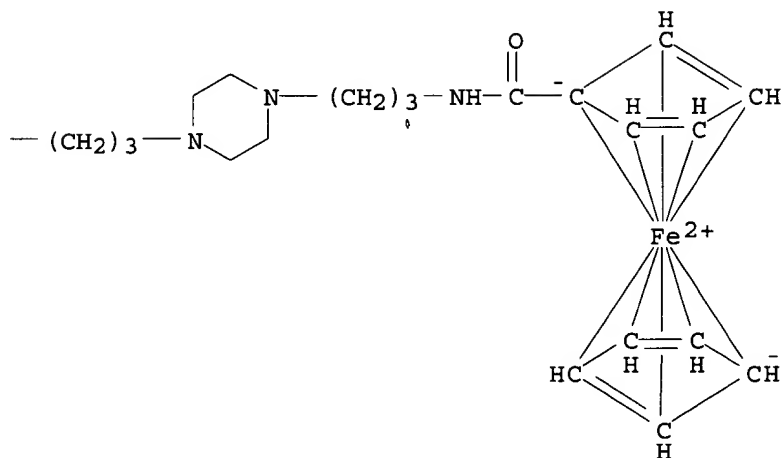
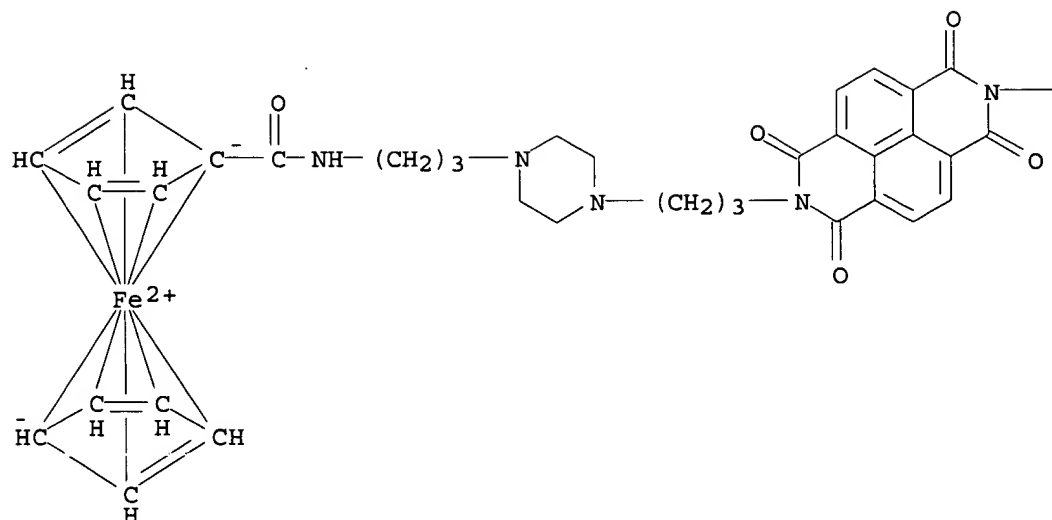






L5 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:441257 CAPLUS  
DN 135:46164  
TI Preparation of ferrocenyl group-containing naphthalenediimides as  
intercalators for DNA detection  
IN Takahashi, Kazunobu; Makino, Yasuhiko; Takagi, Makoto; Takenaka, Shigeo;  
Yamashita, Kenichi  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2001163886	A2	20010619	JP 1999-349286	19991208
PRAI	JP 1999-349286		19991208		
OS	CASREACT 135:46164; MARPAT 135:46164				
IT	209473-66-5P				
	RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP				
	(Preparation)				
	(prepn. of ferrocenyl-contg. naphthalenediimides as intercalators for				
	DNA detection)				
RN	209473-66-5 CAPLUS				
CN	Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-				
	tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-				
	piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)				



L5 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:46009 CAPLUS  
 DN 134:111209  
 TI Method for detecting/quantitating sample nucleic acid fragment by scanning  
 electrochemical microscopy  
 IN Makino, Yasuhiko; Abe, Yoshihiko; Ogawa, Masashi; Takenaka, Shigeo;  
 Yamashita, Kenichi; Takagi, Makoto  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF  
 DT Patent

V. Balasubramanian

LA Japanese

FAN.CNT 1

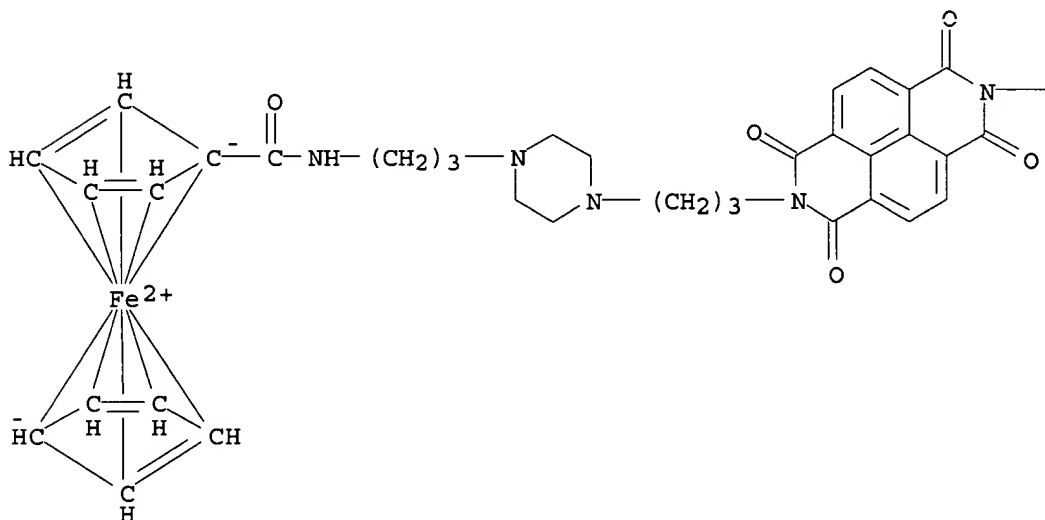
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001013103	A2	20010119	JP 2000-130091	20000428
PRAI	JP 1999-121563	A	19990428		
IT	209473-66-5				

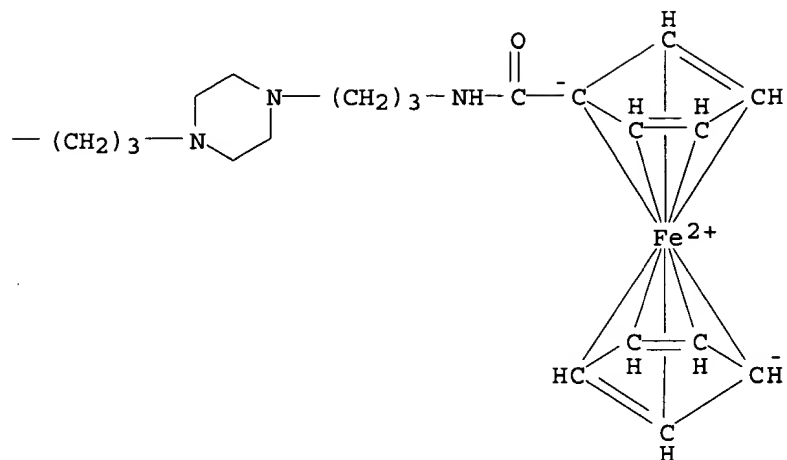
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(method for detecting/quantitating sample nucleic acid fragment by  
scanning electrochem. microscopy)

RN 209473-66-5 CAPLUS

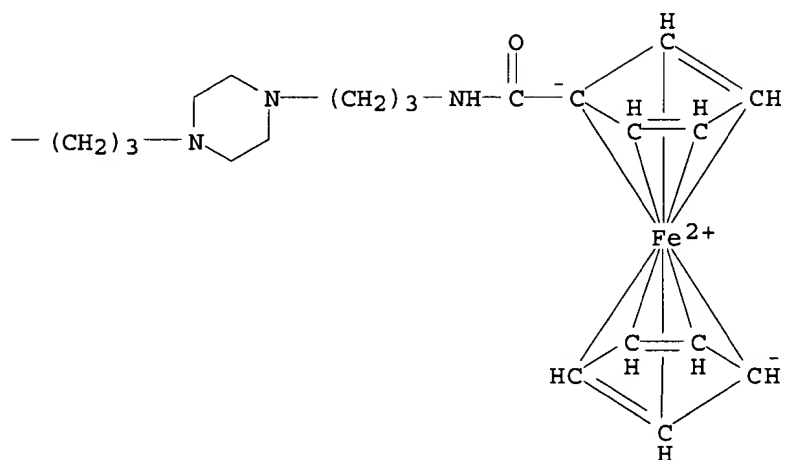
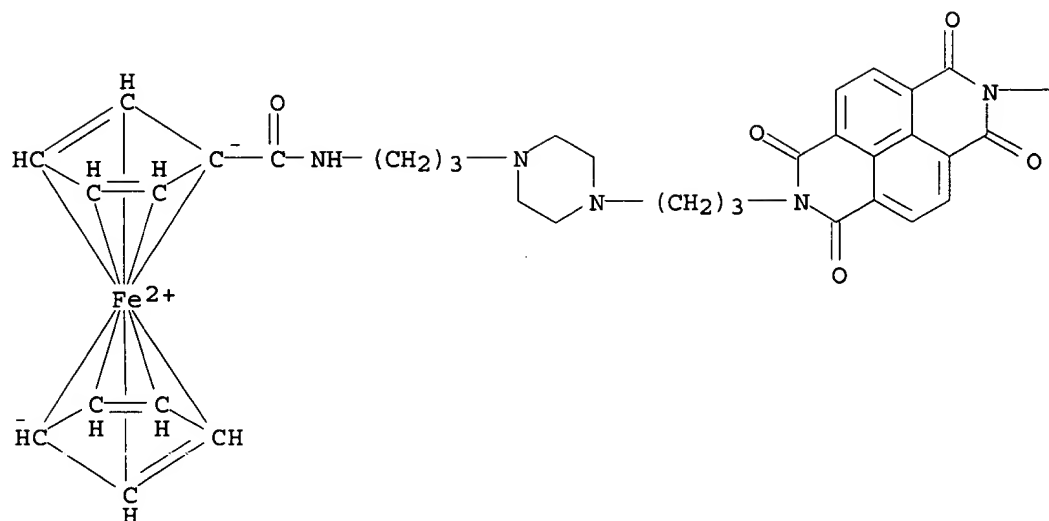
CN Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-  
tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A





L5 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:651064 CAPLUS  
 DN 134:158179  
 TI Electrochemical detection of base pair mutation  
 AU Yamashita, Kenichi; Takagi, Makoto; Kondo, Hiroki; Takenaka, Shigeori  
 CS Department of Chemical Systems and Engineering, Kyushu University,  
 Fukuoka, 812-8581, Japan  
 SO Chemistry Letters (2000), (9), 1038-1039  
 CODEN: CMLTAG; ISSN: 0366-7022  
 PB Chemical Society of Japan  
 DT Journal  
 LA English  
 IT 209473-66-5  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (as oligonucleotide intercalator; electrochem. detection of base pair  
 mutation)  
 RN 209473-66-5 CAPLUS  
 CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-  
 tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
 piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:395927 CAPLUS  
DN 133:171933  
TI Synthesis and antitumor activity of some indeno[1,2-b]quinoline-based bis  
carboxamides  
AU Deady, L. W.; Desneves, J.; Kaye, A. J.; Finlay, G. J.; Baguley, B. C.;  
Denny, W. A.  
CS Department of Chemistry, La Trobe University, Bundoora, 3083, Australia  
SO Bioorganic & Medicinal Chemistry (2000), 8(5), 977-984

V. Balasubramanian

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DT Journal

LA English

IT 288268-89-3P

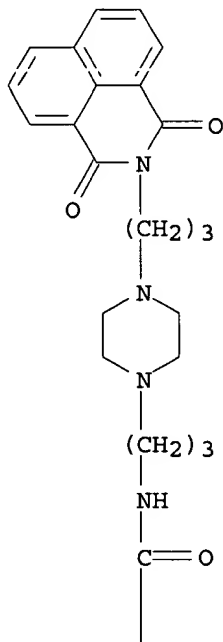
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and antitumor activity of indeno[1,2-b]quinoline-based bis carboxamides)

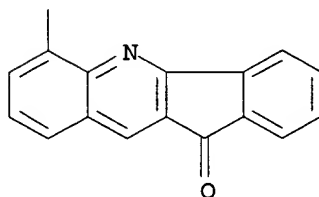
RN 288268-89-3 CAPLUS

CN 11H-Indeno[1,2-b]quinoline-6-carboxamide, N-[3-[4-[3-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)propyl]-1-piperazinyl]propyl]-11-oxo- (9CI)  
(CA INDEX NAME)

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RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

09/927,852

V. Balasubramanian

AN 2000:356683 CAPLUS  
DN 133:1473  
TI Amplified-type DNA detection method using intercalator  
IN Takenaka, Shigeori; Takagi, Makoto  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

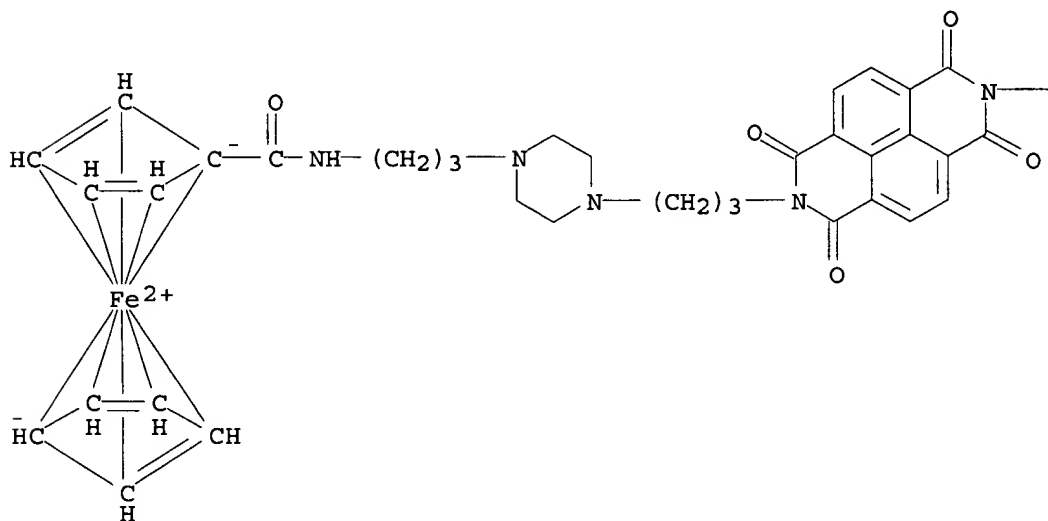
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000146894	A2	20000526	JP 1998-328872	19981104
PRAI	JP 1998-328872		19981104		
IT	209473-66-5				

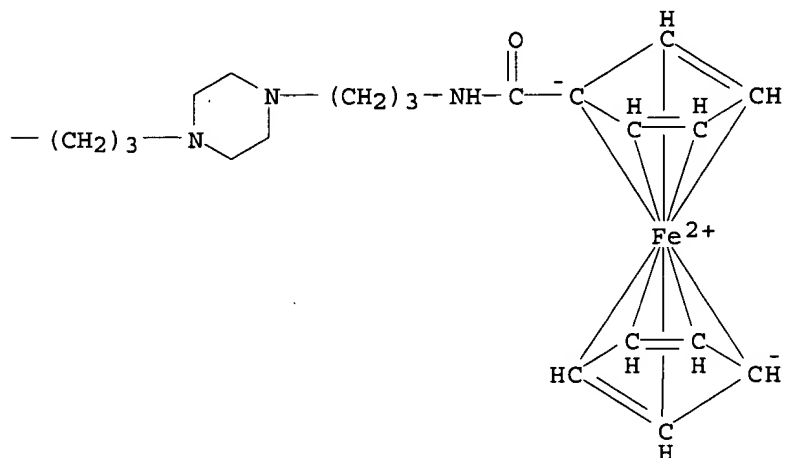
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(amplified-type DNA detection method using intercalator)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A





L5 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:294249 CAPLUS

DN 132:318584

TI An electrochemical method for detecting DNA using DNA sensor and intercalator

IN Takenaka, Shigeo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

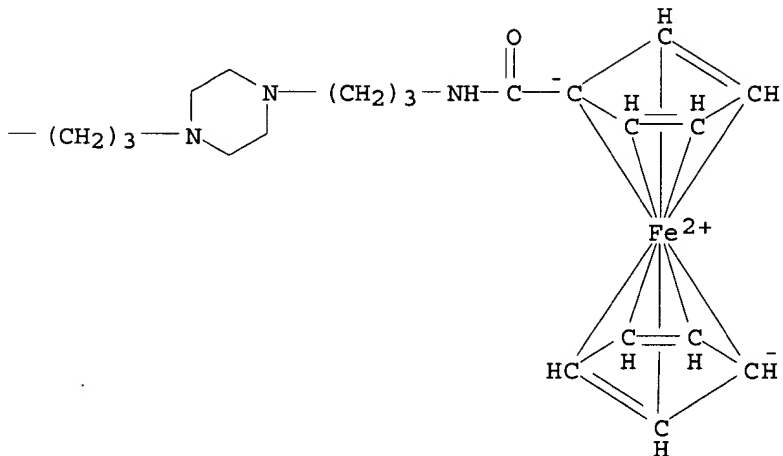
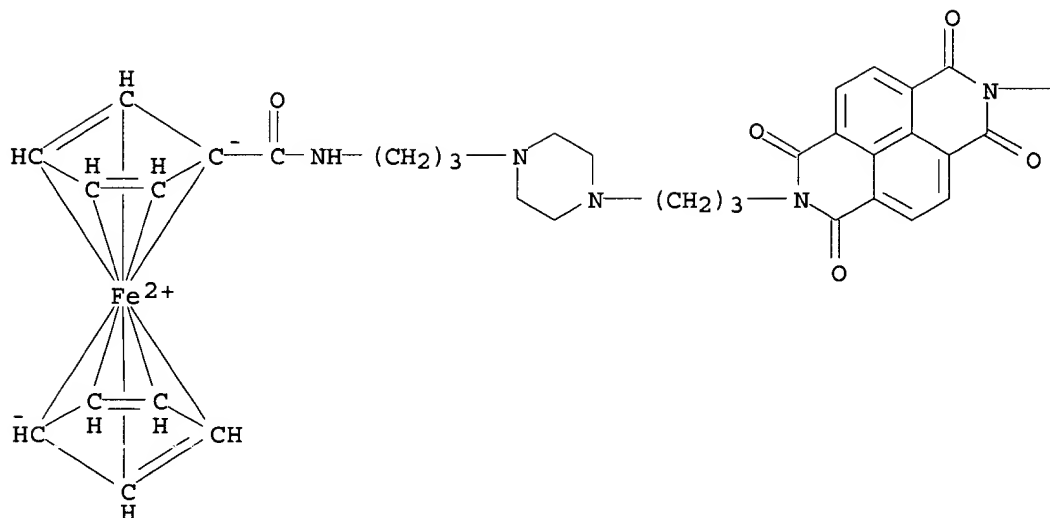
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000125865	A2	20000509	JP 1998-324474	19981028
PRAI	JP 1998-324474		19981028		
IT	209473-66-5				

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(method for detecting DNA using DNA sensor)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[1mn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)





L5 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:114705 CAPLUS  
 DN 132:305305  
 TI DNA Sensing on a DNA Probe-Modified Electrode Using Ferrocenylnaphthalene  
 Diimide as the Electrochemically Active Ligand  
 AU Takenaka, Shigeori; Yamashita, Kenichi; Takagi, Makoto; Uto, Yoshihiro;  
 Kondo, Hiroki  
 CS Department of Chemical Systems and Engineering, Kyushu University,  
 Fukuoka, 812-8581, Japan  
 SO Analytical Chemistry (2000), 72(6), 1334-1341  
 CODEN: ANCHAM; ISSN: 0003-2700

V. Balasubramanian

PB American Chemical Society

DT Journal

LA English

IT 209473-66-5P

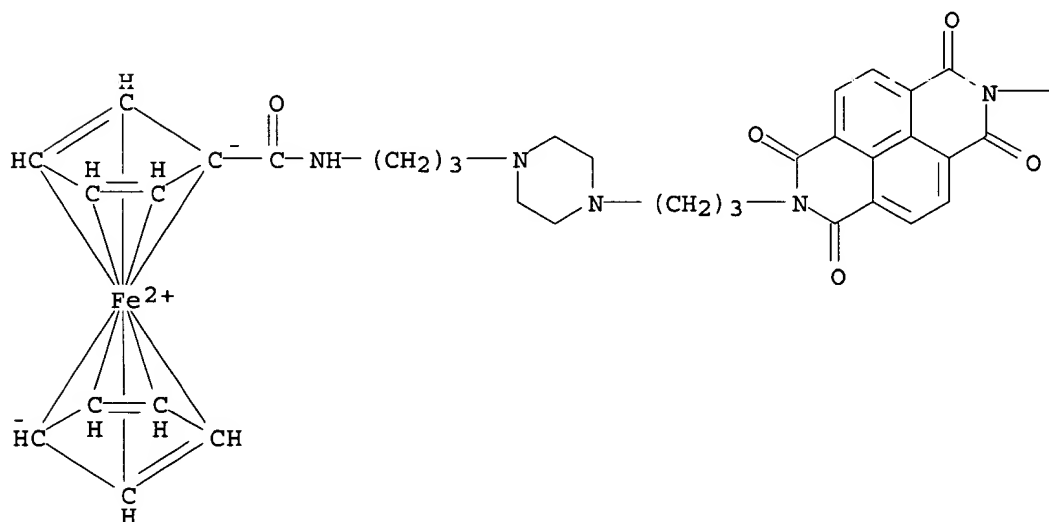
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(DNA sensing on a DNA probe-modified electrode using ferrocenylnaphthalene diimide as electrochem. active ligand)

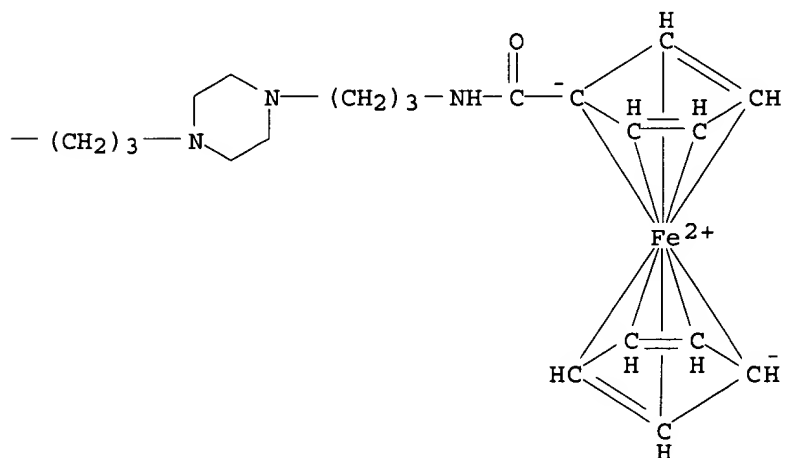
RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[1mn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A



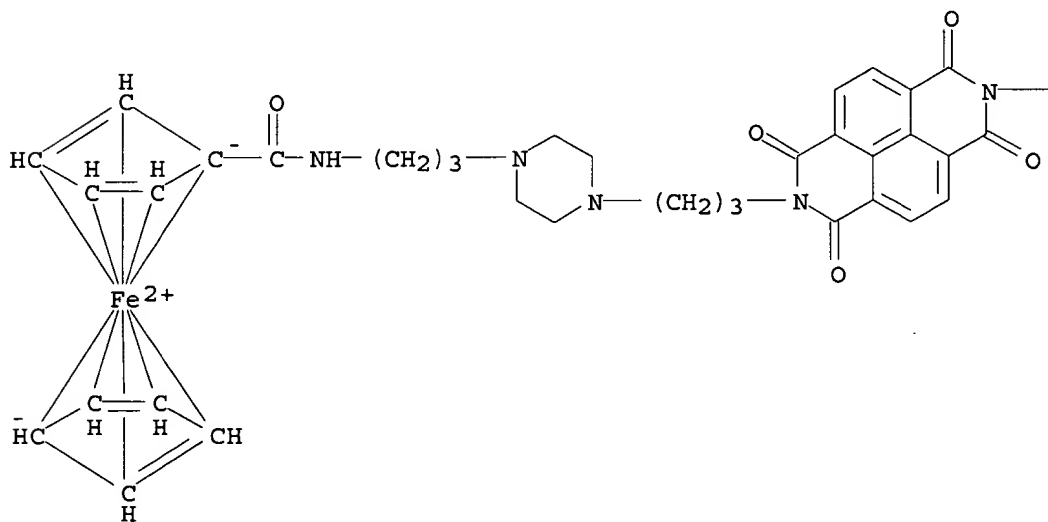
PAGE 1-B

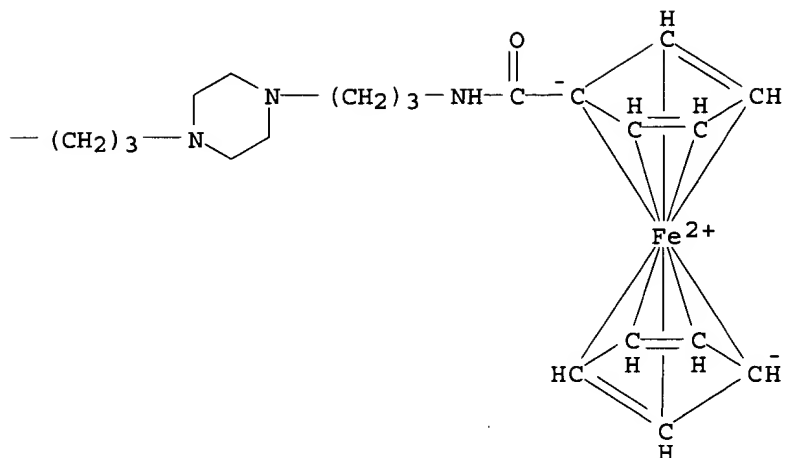


RE.CNT 26      THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

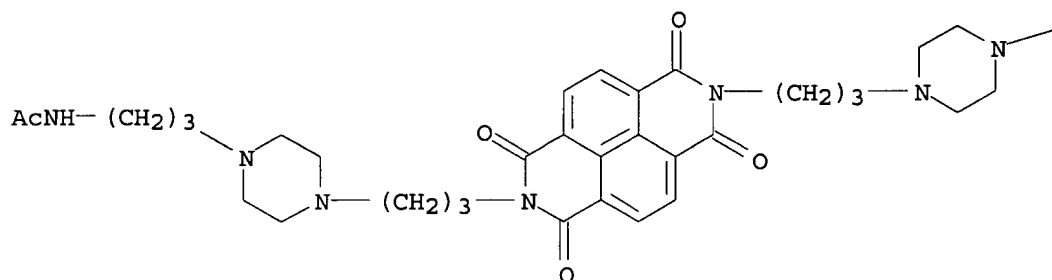
L5    ANSWER 19 OF 23    CAPLUS    COPYRIGHT 2003 ACS on STN  
AN    1998:792277    CAPLUS  
DN    130:150525  
TI    Electrochemistry of ferrocenyl naphthalene diimide derivative and its  
      behavior on hairpin DNA immobilized electrode  
AU    Takenaka, Shigeori; Yamashita, Kenichi; Uto, Yoshihiro; Takagi, Makoto;  
      Kondo, Hiroki  
CS    Department of Chemical Systems and Engineering, Kyushu University,  
      Fukuoka, 812-8581, Japan  
SO    Denki Kagaku oyobi Kogyo Butsuri Kagaku (1998), 66(12), 1329-1334  
      CODEN: DKOKAZ; ISSN: 0366-9297  
PB    Denki Kagakkai  
DT    Journal  
LA    Japanese  
IT    209473-66-5 220164-06-7  
      RL: PRP (Properties)  
      (electrochem. of ferrocenyl naphthalene diimide deriv. and its behavior  
      on hairpin DNA immobilized electrode)  
RN    209473-66-5    CAPLUS  
CN    Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-  
      tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
      piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

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RN 220164-06-7 CAPLUS  
 CN Acetamide, N,N'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyl)]bis- (9CI) (CA INDEX NAME)



— (CH<sub>2</sub>)<sub>3</sub>—NHAc

L5 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:654603 CAPLUS  
 DN 130:35241  
 TI Enhanced electron transfer from glucose oxidase to DNA-immobilized electrode aided by ferrocenyl naphthalene diimide, a threading intercalator  
 AU Takenaka, Shigeori; Uto, Yoshihiro; Takagi, Makoto; Kondo, Hiroki  
 CS Dep. of Chemical Systems and Engineering, Kyushu University, Fukuoka, 812-8581, Peop. Rep. China  
 SO Chemistry Letters (1998), (10), 989-990  
 CODEN: CMLTAG; ISSN: 0366-7022  
 PB Chemical Society of Japan

V. Balasubramanian

DT Journal

LA English

IT 209473-66-5

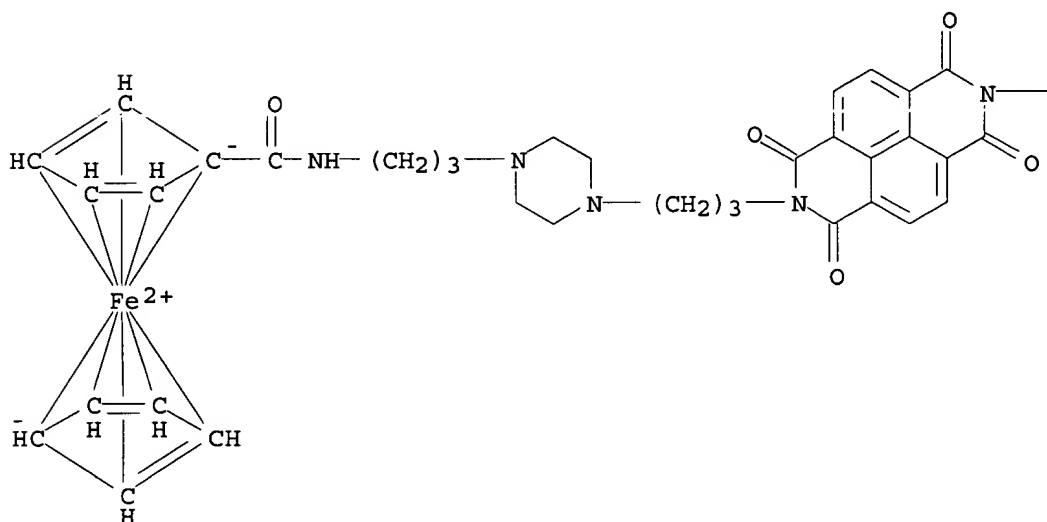
RL: DEV (Device component use); USES (Uses)

(enhanced electron transfer from glucose oxidase to DNA-immobilized electrode aided by ferrocenyl naphthalene diimide, a threading intercalator)

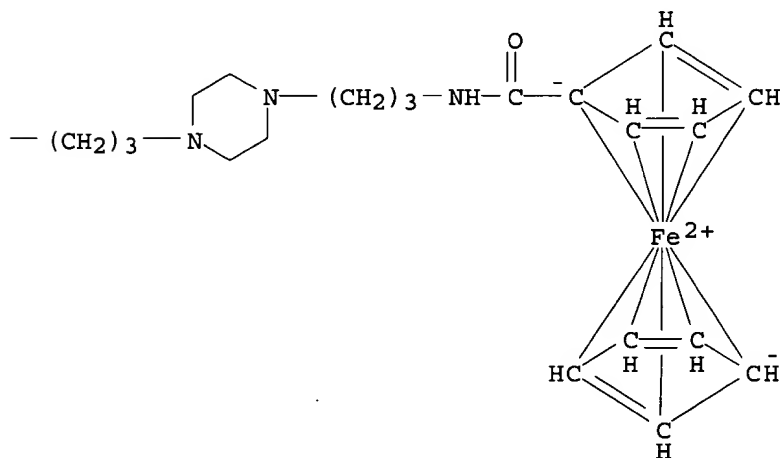
RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

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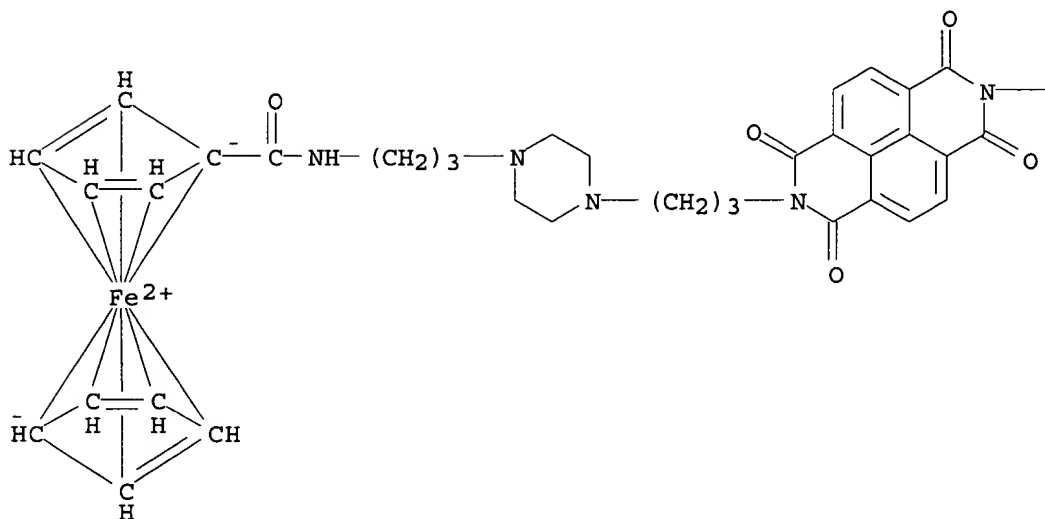


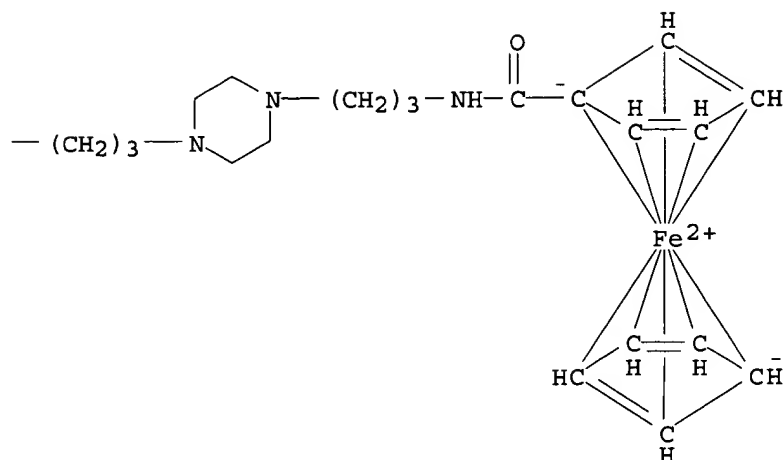
V. Balasubramanian

RE.CNT 5        THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5    ANSWER 21 OF 23    CAPLUS    COPYRIGHT 2003 ACS on STN  
AN    1998:589822    CAPLUS  
DN    129:299720  
TI    Construction of a polyferrocene array with ferrocenyl naphthalene diimide  
      intercalated to the double stranded DNA  
AU    Takenaka, Shigeori; Takagi, Makoto; Uto, Yoshihiro; Kondo, Hiroki  
CS    Department of Chemical Systems and Engineering, Kyushu University,  
      Fukuoka, 812-8581, Japan  
SO    Nucleic Acids Symposium Series (1998), 39, 107-108  
      CODEN: NACSD8; ISSN: 0261-3166  
PB    Oxford University Press  
DT    Journal  
LA    English  
IT    209473-66-5  
      RL: RCT (Reactant); RACT (Reactant or reagent)  
      (construction of a polyferrocene array with ferrocenyl naphthalene  
      diimide intercalated to double stranded DNA)  
PN    209473-66-5    CAPLUS  
CN    Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-  
      tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
      piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI)    (CA INDEX NAME)

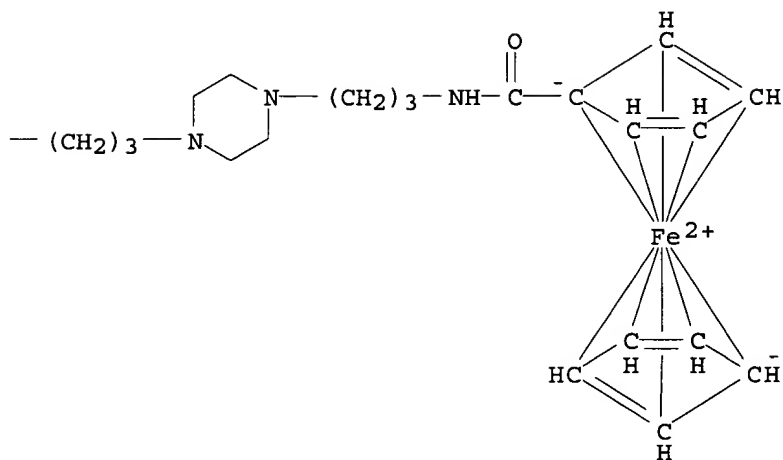
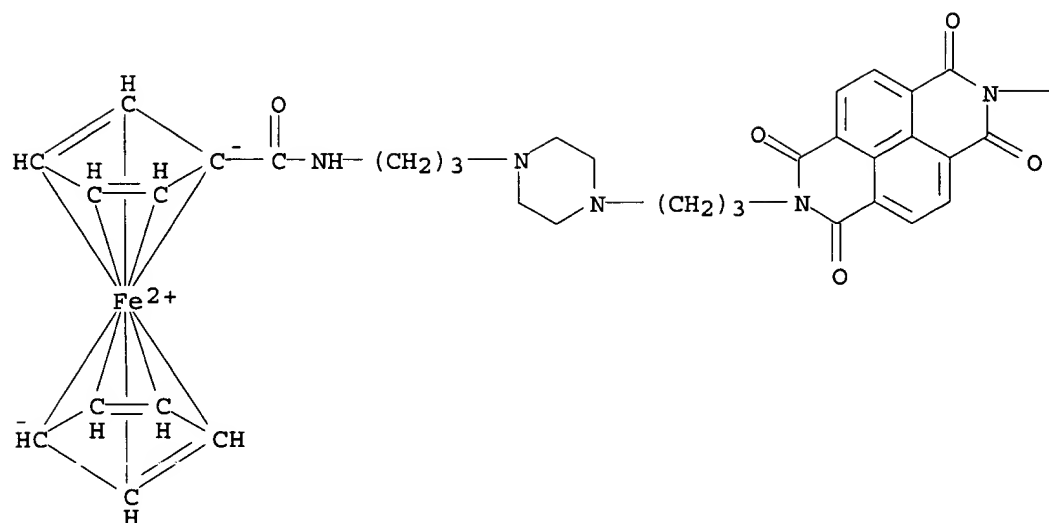
PAGE 1-A





RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:342144 CAPLUS  
DN 129:78794  
TI Electrochemically active threading intercalator with high double stranded  
DNA selectivity  
AU Takenaka, Shigeori; Uto, Yoshihiro; Saita, Hideki; Yokoyama, Makoto;  
Kondo, Hiroki; Wilson, W. David  
CS Department of Chemical Systems and Engineering, Kyushu University,  
Fukuoka, 812-8581, Japan  
SO Chemical Communications (Cambridge) (1998), (10), 1111-1112  
CODEN: CHCOFS; ISSN: 1359-7345  
PB Royal Society of Chemistry  
DT Journal  
LA English  
IT 209473-66-5  
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(electrochem. active threading intercalator with high double stranded  
DNA selectivity)  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-  
tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1990:499470 CAPLUS  
DN 113:99470  
TI Pigment preparations resisting flocculation  
IN Dietz, Erwin; Schiessler, Siegfried; Urban, Manfred  
PA Hoechst A.-G., Germany  
SO Ger. Offen., 20 pp.  
CODEN: GWXXBX  
DT Patent

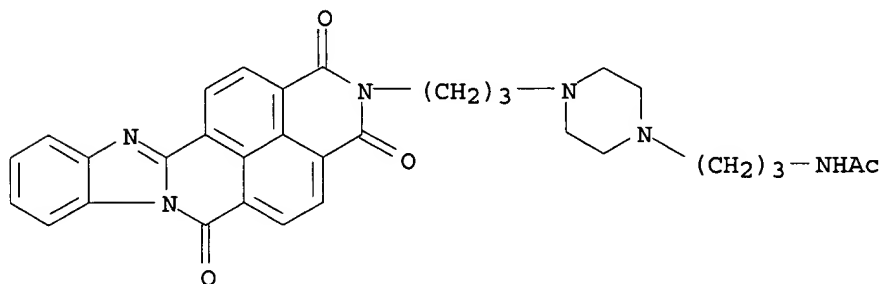


V. Balasubramanian

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3931052	A1	19900322	DE 1989-3931052	19890916
	EP 360182	A2	19900328	EP 1989-117189	19890916
	EP 360182	A3	19910911		
	EP 360182	B1	19940119		
	R: CH, DE, ES, FR, GB, IT, LI				
	ES 2061856	T3	19941216	ES 1989-117189	19890916
	JP 02115278	A2	19900427	JP 1989-242370	19890920
	US 5071482	A	19911210	US 1989-410159	19890920
	CA 1337143	A1	19951003	CA 1989-612048	19890920
PRAI	DE 1988-3832065		19880921		
	DE 1989-3905931		19890225		
OS	MARPAT 113:99470				
IT	129051-97-4				
	RL: USES (Uses)				
	(in flocculation-resistant pigment preps.)				
RN	129051-97-4	CAPLUS			
CN	Acetamide, N-[3-[4-[3-(3,6-dihydro-1,3,6-trioxobenzimidazo[2,1-b]benzo[lmn][3,8]phenanthrolin-2(1H)-yl)propyl]-1-piperazinyl]propyl]-(9CI) (CA INDEX NAME)				



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

72.38

220.74

STN INTERNATIONAL LOGOFF AT 16:55:20 ON 28 AUG 2003

V. Balasubramanian

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Feb 24	PCTGEN now available on STN
NEWS	4	Feb 24	TEMA now available on STN
NEWS	5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	6	Feb 26	PCTFULL now contains images
NEWS	7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	8	Mar 24	PATDPAFULL now available on STN
NEWS	9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	10	Apr 11	Display formats in DGENE enhanced
NEWS	11	Apr 14	MEDLINE Reload
NEWS	12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	13	AUG 22	Indexing from 1927 to 1936 added to records in CA/CAPLUS
NEWS	14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	15	Apr 28	RDISCLOSURE now available on STN
NEWS	16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	19	May 19	Simultaneous left and right truncation added to WSCA
NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25	HSDB has been reloaded
NEWS	25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS	26	Jul 21	Identification of STN records implemented
NEWS	27	Jul 21	Polymer class term count added to REGISTRY
NEWS	28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	35	AUG 18	Data available for download as a PDF in RDISCLOSURE

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NEWS 36 AUG 18 Simultaneous left and right truncation added to PASCAL  
NEWS 37 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right  
Truncation  
NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 26 AUG 2003 HIGHEST RN 573925-63-0

DICTIONARY FILE UPDATES: 26 AUG 2003 HIGHEST RN 573925-63-0

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PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

09/927,852

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=>

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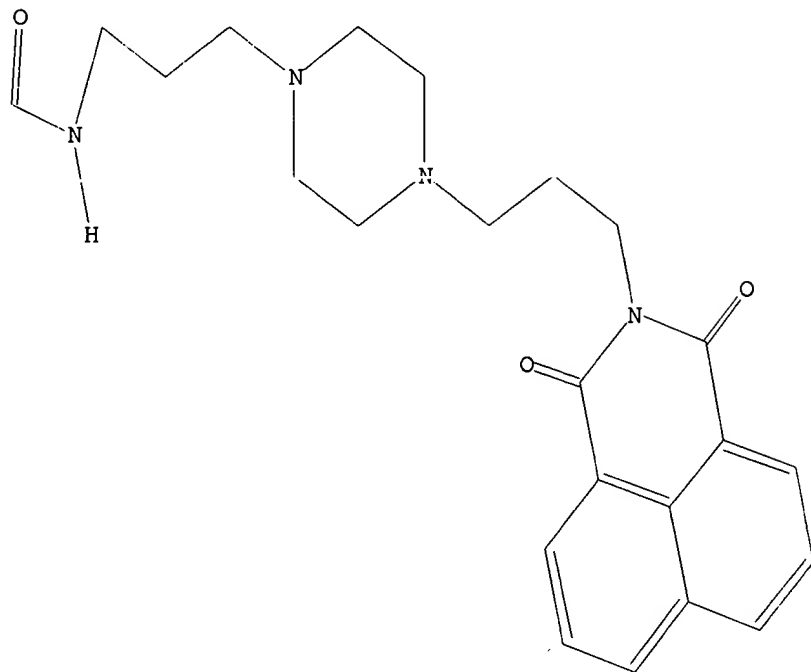
=> que L1

L2 QUE L1

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

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SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 8 TO 329

PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

09/927,852

V. Balasubramanian

=> s 11 sss ful  
FULL SEARCH INITIATED 16:54:36 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 138 TO ITERATE

100.0% PROCESSED 138 ITERATIONS 6 ANSWERS  
SEARCH TIME: 00.00.01

L4 6 SEA SSS FUL L1

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	148.15	148.36

FILE 'CAPLUS' ENTERED AT 16:54:43 ON 28 AUG 2003  
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FILE COVERS 1907 - 28 Aug 2003 VOL 139 ISS 9  
FILE LAST UPDATED: 27 Aug 2003 (20030827/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 14  
L5 23 L4

=> d 15 1-23 bib hitstr

L5 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:73772 CAPLUS  
DN 139:79655  
TI Direct detection of single nucleotide polymorphism (SNP) with genomic DNA by the ferrocenylnaphthalene diimide-based electrochemical hybridization assay (FND-EHA)  
AU Nojima, Takahiko; Yamashita, Kenichi; Takagi, Atsuko; Takagi, Makoto; Ikeda, Yasuyuki; Kondo, Hiroki; Takenaka, Shigeori  
CS Department of Applied Chemistry, School of Engineering, Kyushu University, Fukuoka, 812-8581, Japan  
SO Analytical Sciences (2003), 19(1), 79-83  
CODEN: ANSCEN; ISSN: 0910-6340  
PB Japan Society for Analytical Chemistry  
DT Journal  
LA English  
IT 209473-66-5

09/927,852

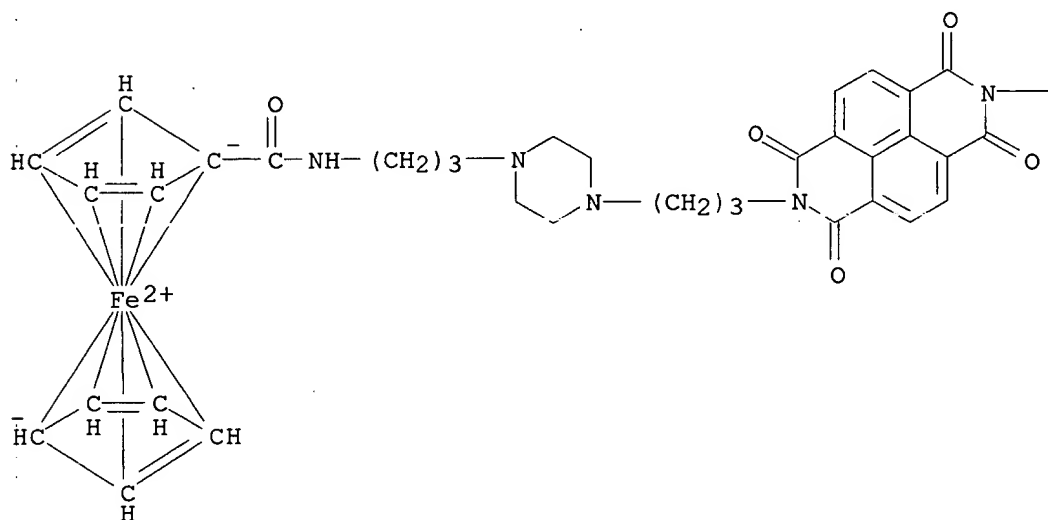
V. Balasubramanian

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(direct detection of single nucleotide polymorphism (SNP) with genomic  
DNA by ferrocenyl naphthalene diimide-based electrochem. hybridization  
assay (FND-EHA))

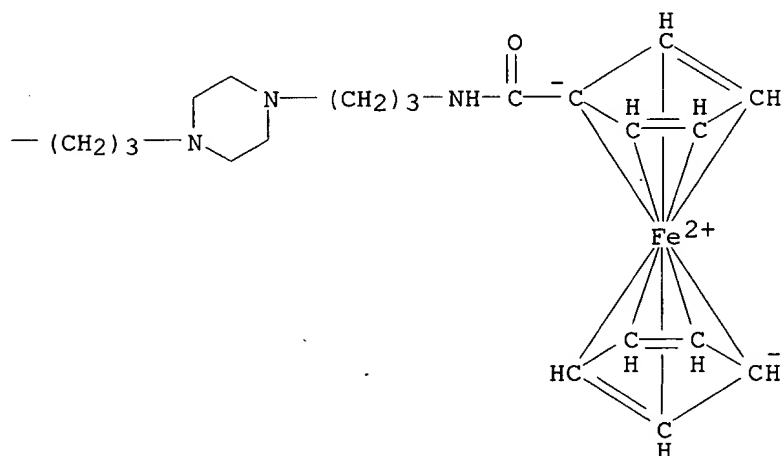
RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[ (1,3,6,8-tetrahydro-1,3,6,8-  
tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



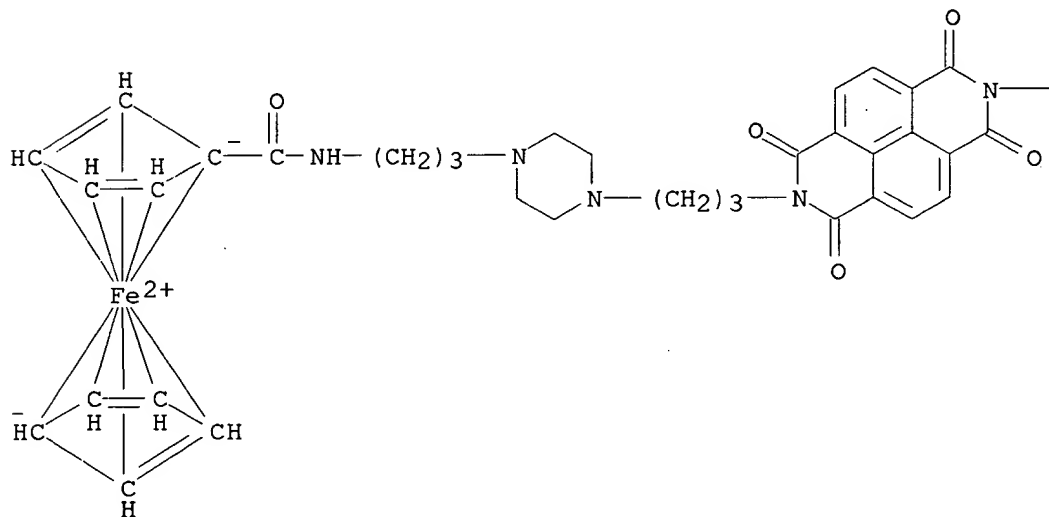
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

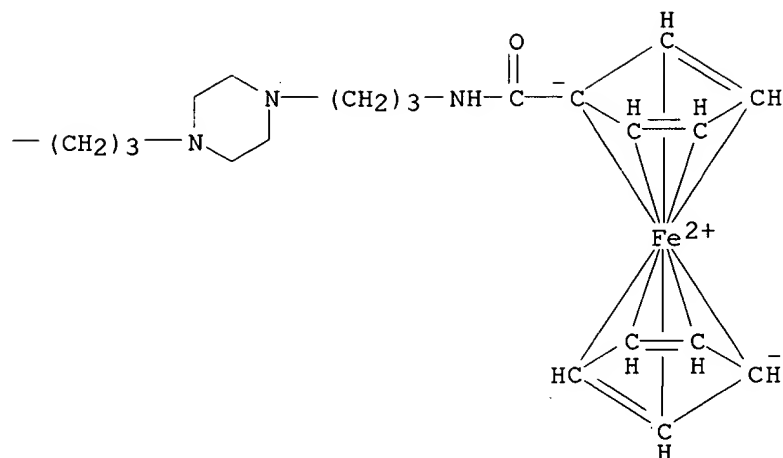
09/927,852

V. Balasubramanian

L5 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:837519 CAPLUS  
DN 137:333698  
TI Ferrocenyl naphthalene diimide-based electrochemical hybridization assay for a heterozygous deficiency of the lipoprotein lipase gene  
AU Yamashita, Kenichi; Takagi, Atsuko; Takagi, Makoto; Kondo, Hiroki; Ikeda, Yasuyuki; Takenaka, Shigeori  
CS Department of Applied Chemistry Faculty of Engineering, Kyushu University, Fukuoka, 812-8581, Japan  
SO Bioconjugate Chemistry (2002), 13(6), 1193-1199  
CODEN: BCCHE; ISSN: 1043-1802  
PB American Chemical Society  
DT Journal  
LA English  
IT **209473-66-5**  
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(FND, as hybridization indicator; ferrocenylnaphthalene diimide  
(FND)-based electrochem. hybridization assay for heterozygous  
deficiency of lipoprotein lipase gene)  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[1,lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A





RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:658465 CAPLUS  
DN 137:197819  
TI Intercalator suitable for electrochemical detection of double-stranded  
DNAs and process for preparation thereof  
IN Pak, Youngmi Kim; Pak, James Jungho; Kim, Sanghee; Lee, Hong-Kyu  
PA S. Korea  
SO U.S. Pat. Appl. Publ., 9 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002117396	A1	20020829	US 2001-927852	20010810
WO 2002066679	A1	20020829	WO 2001-KR1321	20010803
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI KR 2001-8467 A 20010220

OS CASREACT 137:197819

IT 209473-66-5P 446833-70-1P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(intercalator suitable for electrochem. detection of double-stranded DNAs and process for prepn. thereof)

RN 209473-66-5 CAPLUS

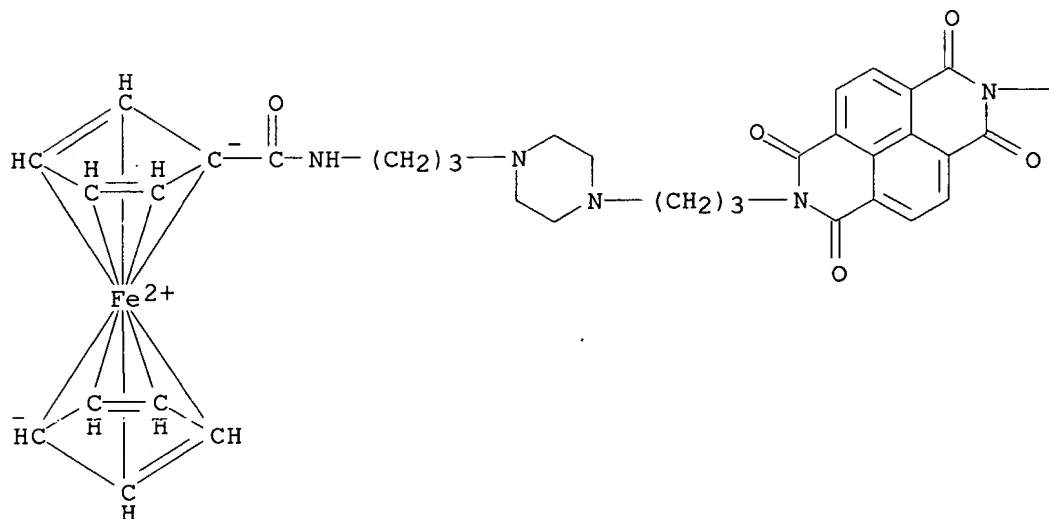
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl)-4,1-



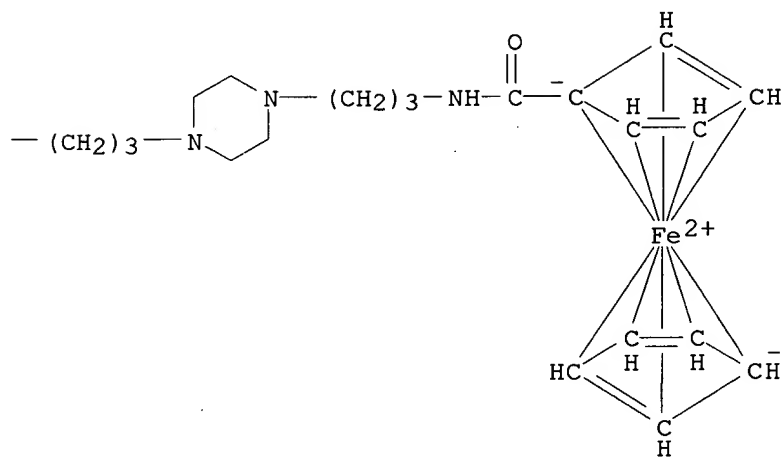
V. Balasubramanian

piperazinediyl-3,1-propanediyliminocarbonyl]]bis- (9CI) (CA INDEX NAME)

PAGE 1-A

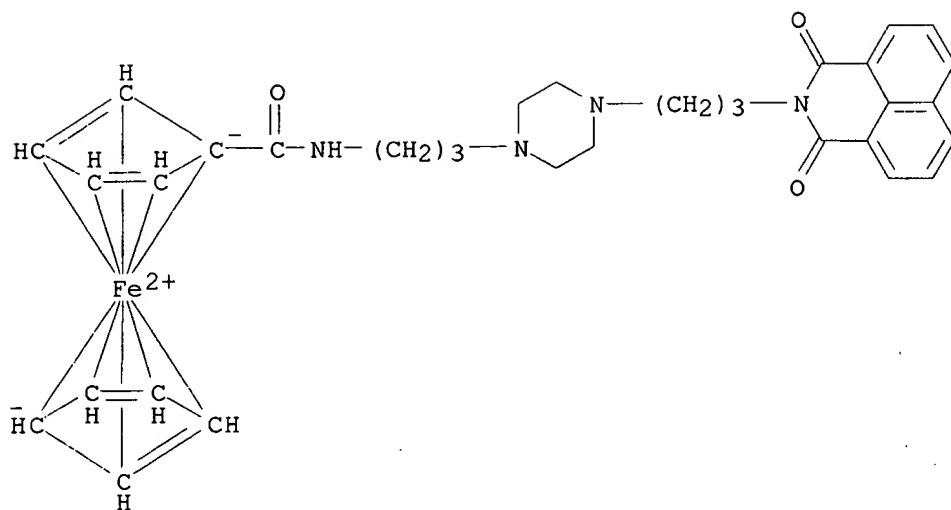


PAGE 1-B



RN 446833-70-1 CAPLUS

CN Ferrocene, [[[3-[4-[3-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)propyl]-1-piperazinyl]propyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:615894 CAPLUS  
 DN 137:181937  
 TI Mixed intercalator and electrochemical detection of DNA using same  
 IN Pak, Youngmi Kim; Pak, James Jungho; Kim, Sanghee; Lee, Hong-Kyu  
 PA Mitocn Ltd., S. Korea  
 SO PCT Int. Appl., 17 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002063041	A1	20020815	WO 2001-KR1320	20010803
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	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS,				
	LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				
	RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,				
	YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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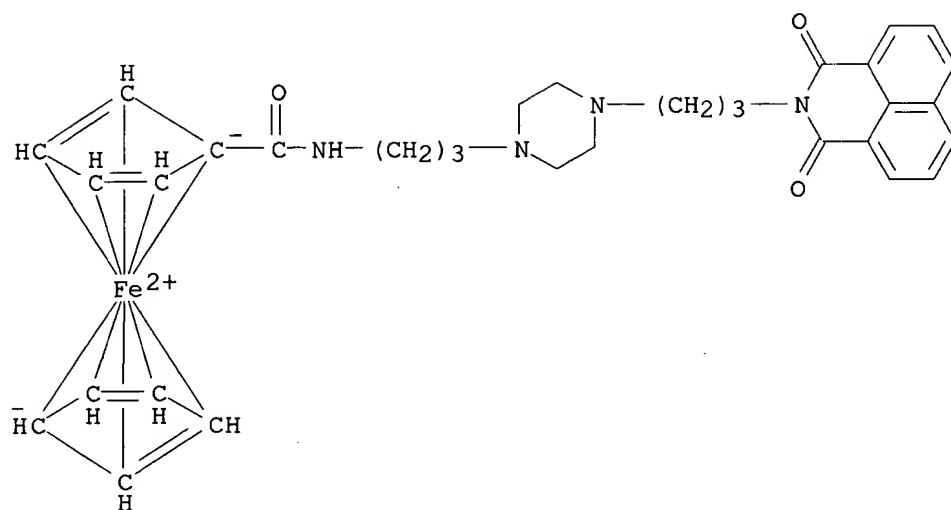
PRAI KR 2001-5667 A 20010206

IT 446833-70-1

RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (mixed intercalator and electrochem. detection of DNA using same)

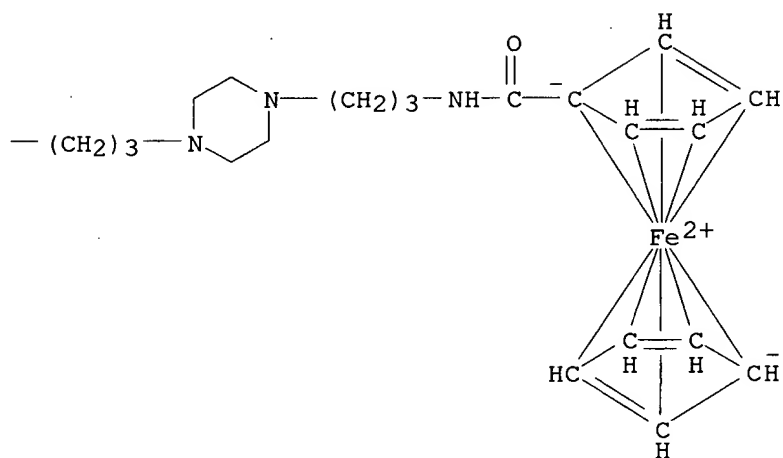
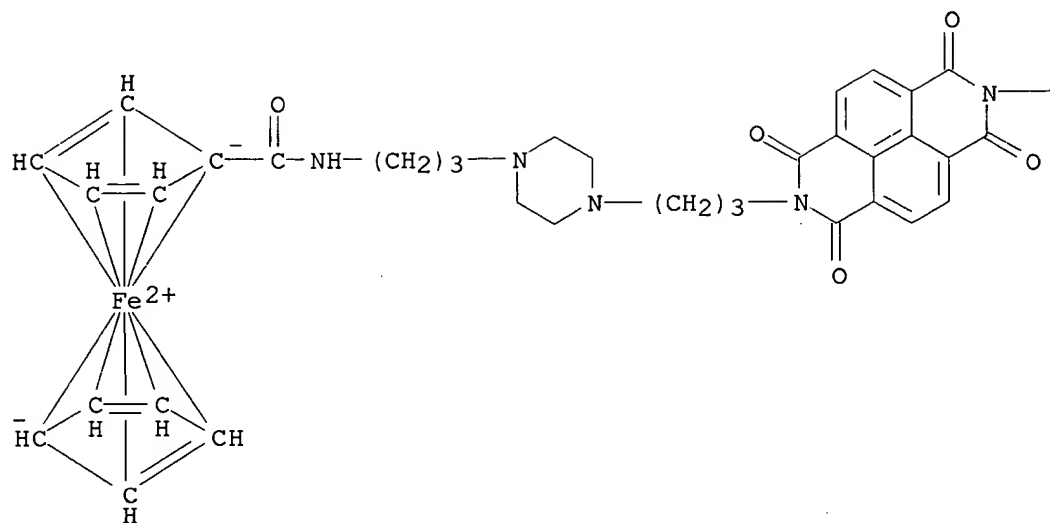
RN 446833-70-1 CAPLUS

CN Ferrocene, [[[3-[4-[3-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)propyl]-1-piperazinyl]propyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:513808 CAPLUS  
DN 137:305331  
TI Electrochemical Detection of Nucleic Base Mismatches with Ferrocenyl  
Naphthalene Diimide  
AU Yamashita, Kenichi; Takagi, Makoto; Kondo, Hiroki; Takenaka, Shigeori  
CS Department of Applied Chemistry, Faculty of Engineering, Kyushu  
University, Fukuoka, 812-8581, Japan  
SO Analytical Biochemistry (2002), 306(2), 188-196  
CODEN: ANBCA2; ISSN: 0003-2697  
PB Elsevier Science  
DT Journal  
LA English  
IT **209473-66-5**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(electrochem. detection of nucleic base mismatches using ferrocenyl  
naphthalene diimide as hybridization indicator and probe  
DNA-immobilized electrode).  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-  
tetraoxobenzo[1,3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:249100 CAPLUS  
DN 137:150751  
TI Electrochemical analysis of single nucleotide polymorphisms of p53 gene  
AU Miyahara, Hiroyoshi; Yamashita, Kenichi; Kanai, Masayuki; Uchida, Kazuhiko; Takagi, Makoto; Kondo, Hiroki; Takenaka, Shigeori  
CS Faculty of Engineering, Department of Applied Chemistry, Kyushu University, Fukuoka, 812-8581, Japan  
SO Talanta (2002), 56(5), 829-835

V. Balasubramanian

CODEN: TLNTA2; ISSN: 0039-9140

PB Elsevier Science B.V.

DT Journal

LA English

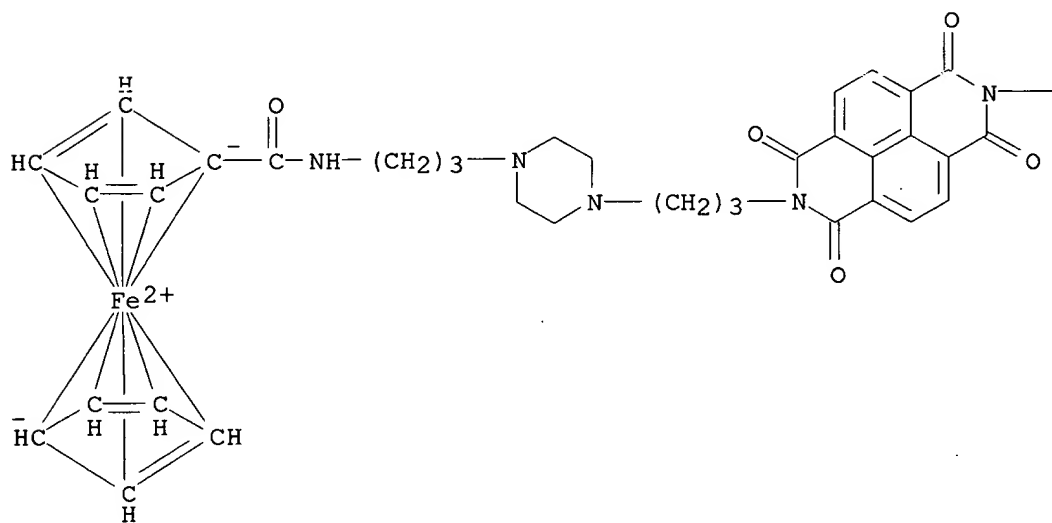
IT 209473-66-5

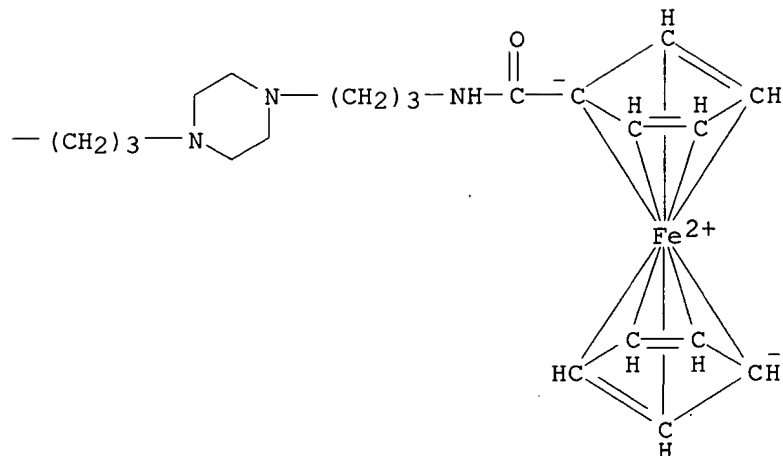
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses) (intercalation agent; electrochem. anal. of single nucleotide polymorphisms of p53 gene)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

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RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:924280 CAPLUS

DN 136:49315

TI Electrochemical detection of nucleic acids using PNA covalently immobilized on electrodes

IN Makino, Yoshihiko; Abe, Yoshihiko; Ogawa, Masashi

PA Fuji Photo Film Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 20 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001053522	A1	20011220	US 2001-845403	20010430
	JP 2002017352	A2	20020122	JP 2001-134685	20010501
PRAI	JP 2000-130090	A	20000428		

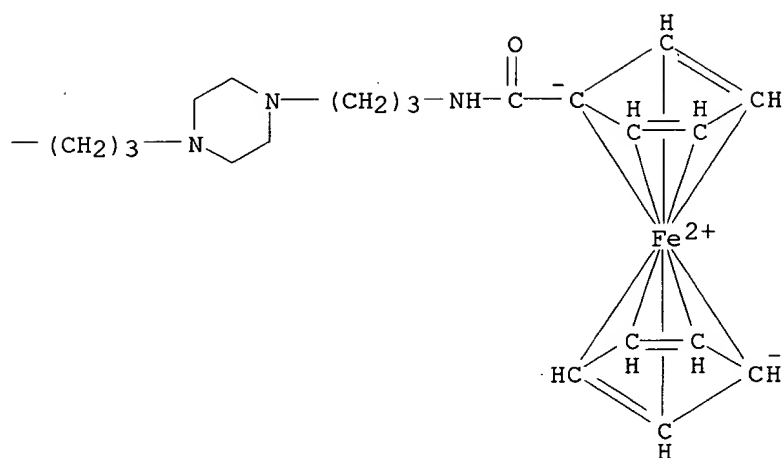
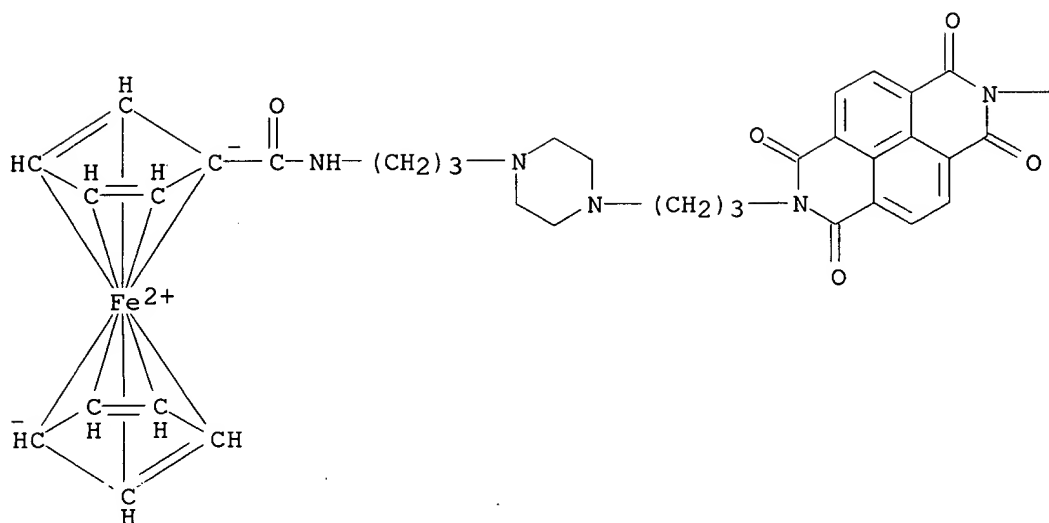
OS MARPAT 136:49315

IT 209473-66-5

RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(electrochem. detection of nucleic acids using PNA covalently immobilized on electrodes)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:878997 CAPLUS  
 DN 136:163548  
 TI Ferrocenyl naphthalene diimide can bind to DNA.cntdot.RNA hetero duplex:  
 potential use in an electrochemical detection of mRNA expression  
 AU Sato, Shinobu; Fujii, Satoshi; Yamashita, Kenichi; Takagi, Makoto; Kondo,  
 Hiroki; Takenaka, Shigeori  
 CS Faculty of Engineering, Department of Applied Chemistry, Kyushu  
 University, Fukuoka, 812-8581, Japan  
 SO Journal of Organometallic Chemistry (2001), 637-639, 476-483  
 CODEN: JORCAI; ISSN: 0022-328X

V. Balasubramanian

PB Elsevier Science S.A.

DT Journal

LA English

IT 396719-64-5P

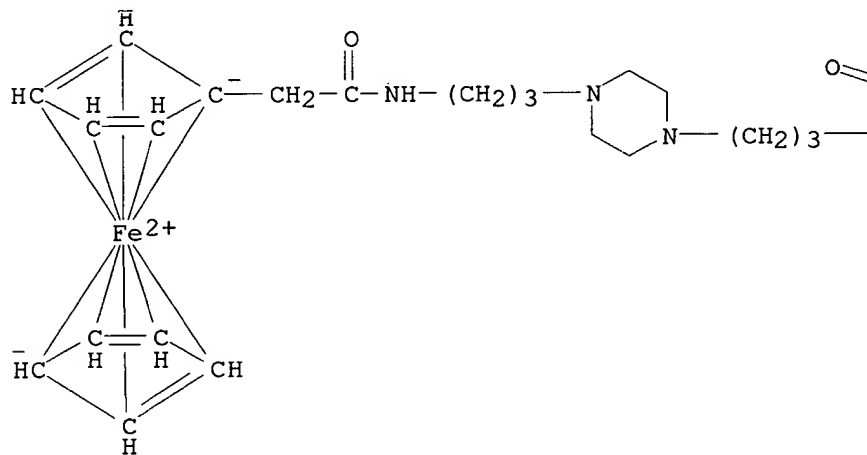
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)

(ferrocenyl naphthalene diimide used in electrochem. detection of mRNA expression)

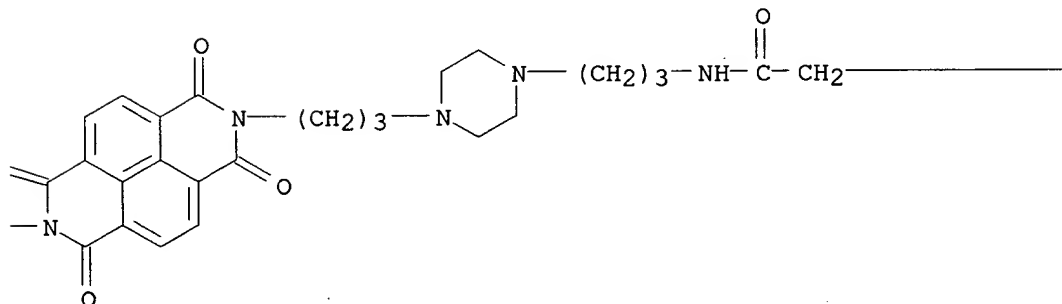
RN 396719-64-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis[3,1-propanediyl-4,1-piperazinediyl-3,1-propanediylimino(2-oxo-2,1-ethanediyl)]]bis- (9CI) (CA INDEX NAME)

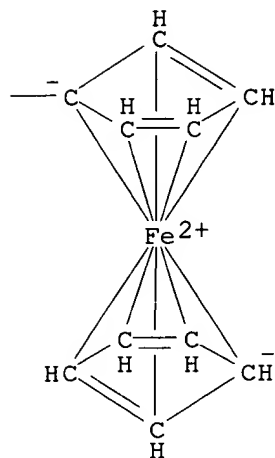
PAGE 1-A



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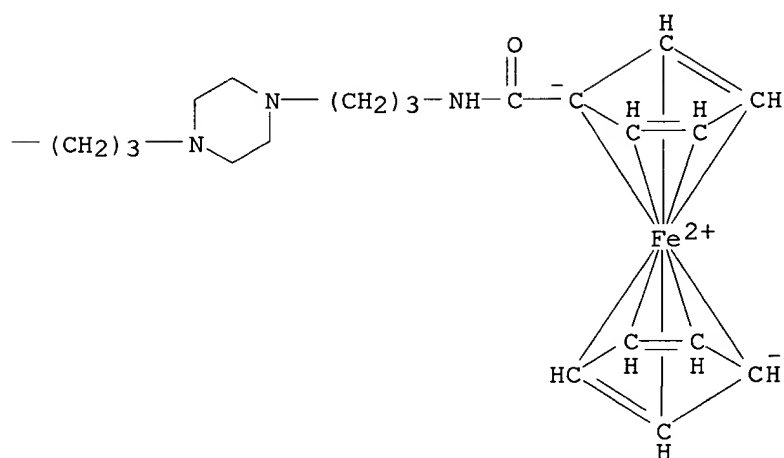
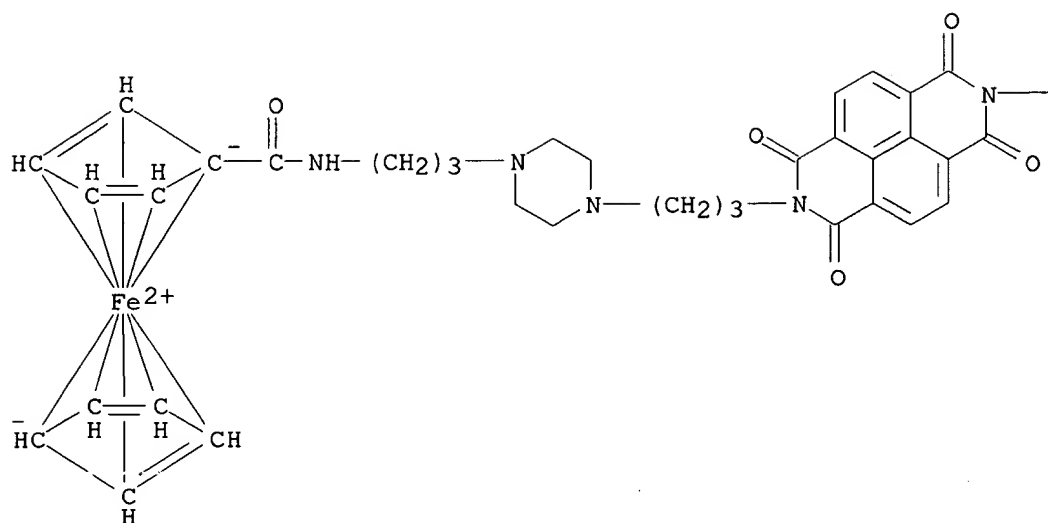






RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:675281 CAPLUS  
DN 135:368830  
TI Base mutation analysis by a ferrocenyl naphthalene diimide derivative  
AU Takenaka, Shigeori; Miyahara, Hiroyoshi; Yamashita, Kenichi; Takagi, Makoto; Kondo, Hiroki  
CS Department of Applied Chemistry, Faculty of Engineering, Kyushu University, Fukuoka, 812-8581, Japan  
SO Nucleosides, Nucleotides & Nucleic Acids (2001), 20(4-7), 1429-1432  
CODEN: NNNAFY; ISSN: 1525-7770  
PB Marcel Dekker, Inc.  
DT Journal  
LA English  
IT **209473-66-5**  
RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)  
(base mutation anal. by ferrocenyl naphthalene diimide deriv.)  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:587758 CAPLUS  
DN 136:289379  
TI Electrochemical detection of DNA hybridization  
AU Takenaka, Shigeori  
CS Graduate School of Engineering, Kyushu University, Japan  
SO DNA Chipu Oyo Gijutsu (2000), 76-87. Editor(s): Matsunaga, Tadashi.  
Publisher: Shi Emu Shi, Tokyo, Japan.  
CODEN: 69BRM3

V. Balasubramanian

DT Conference; General Review

LA Japanese

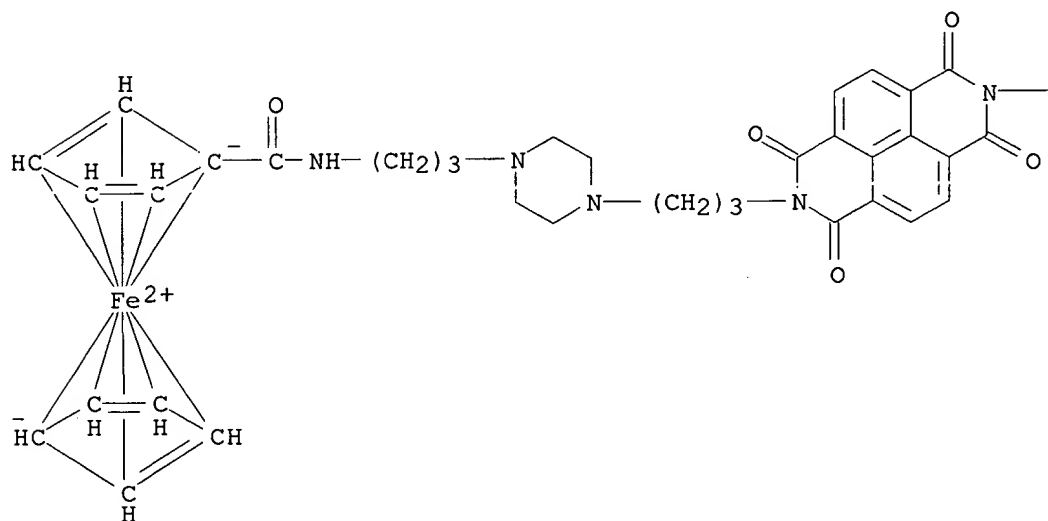
IT 209473-66-5

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(electrochem. detection of DNA hybridization)

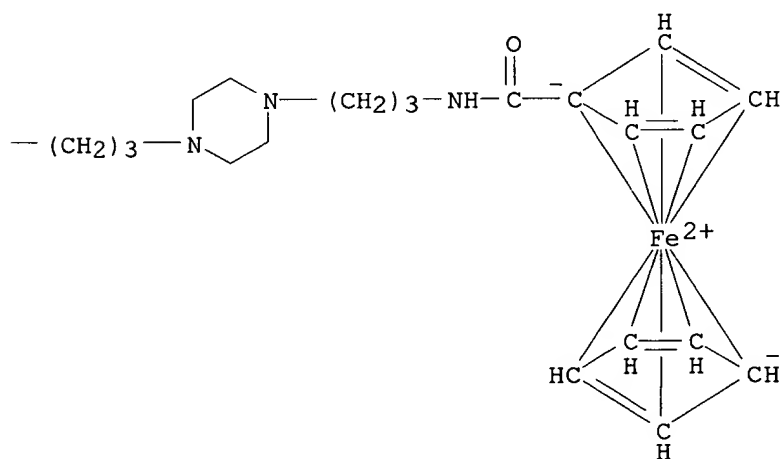
RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[ (1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

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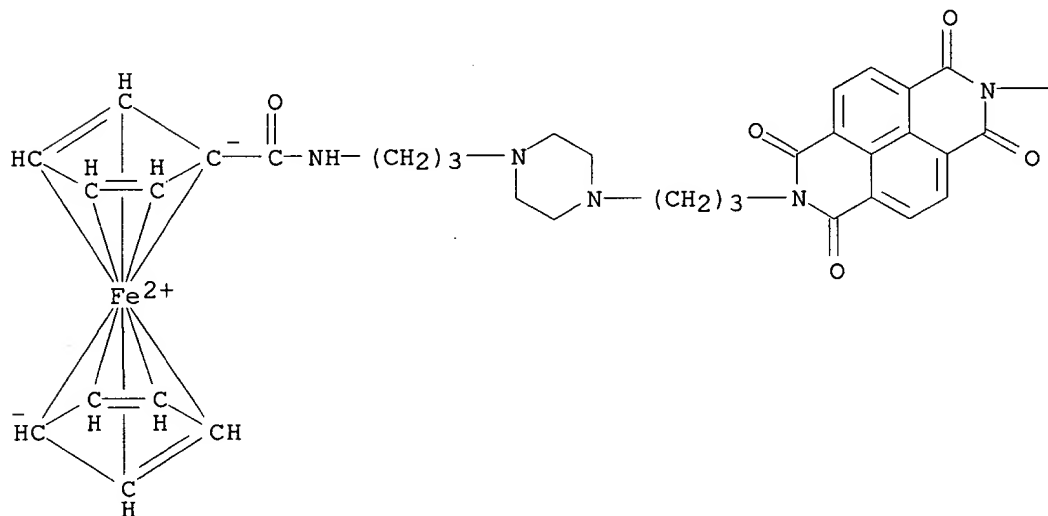
L5 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

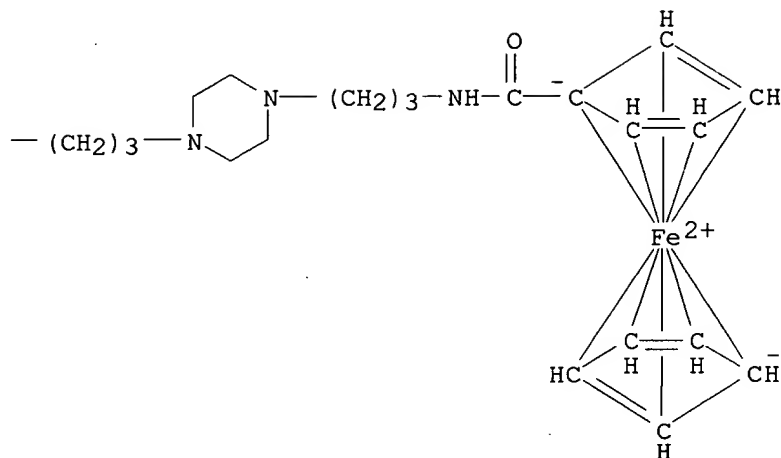
09/927,852

V. Balasubramanian

AN 2001:569276 CAPLUS  
DN 136:211374  
TI Visualization of DNA microarrays by scanning electrochemical microscopy (SECM)  
AU Yamashita, Kenichi; Takagi, Makoto; Takenaka, Shigeori; Uchida, Kazuhiko; Kondo, Hiroki  
CS Department of Applied Chemistry, Faculty of Engineering, Kyushu University, Fukuoka, 812-8581, Japan  
SO Analyst (Cambridge, United Kingdom) (2001), 126(8), 1210-1211  
CODEN: ANALAO; ISSN: 0003-2654  
PB Royal Society of Chemistry  
DT Journal  
LA English  
IT 209473-66-5  
RL: ARG (Analytical reagent use); DEV (Device component use); ANST (Analytical study); USES (Uses)  
(as hybridization indicator; visualization of DNA microarrays by scanning electrochem. microscopy (SECM))  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

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RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:441257 CAPLUS

DN 135:46164

TI Preparation of ferrocenyl group-containing naphthalenediimides as intercalators for DNA detection

IN Takahashi, Kazunobu; Makino, Yasuhiko; Takagi, Makoto; Takenaka, Shigeo; Yamashita, Kenichi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001163886	A2	20010619	JP 1999-349286	19991208
PRAI	JP 1999-349286		19991208		

OS CASREACT 135:46164; MARPAT 135:46164

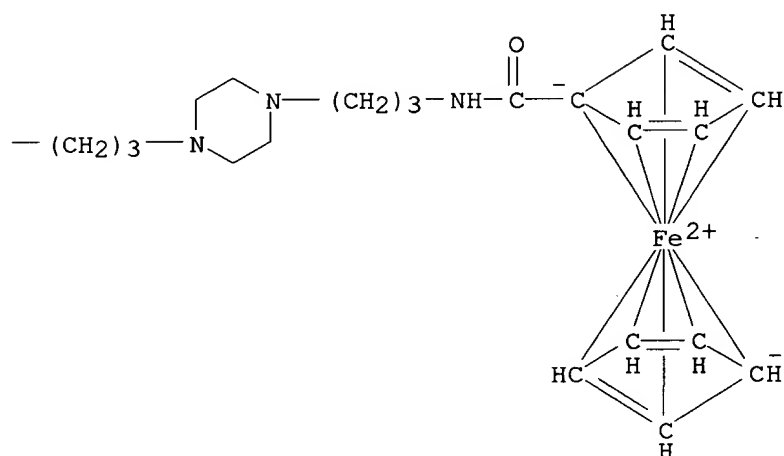
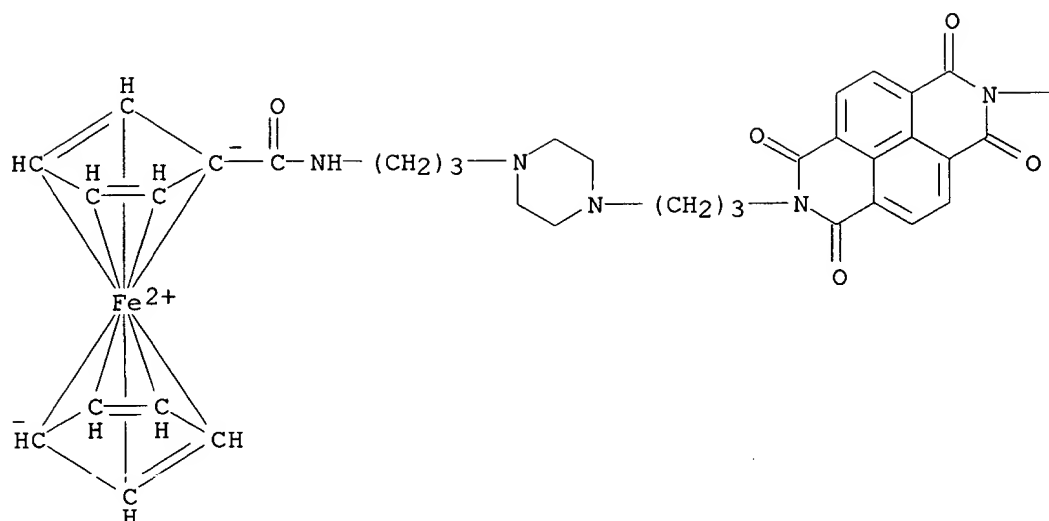
IT **209473-66-5P**

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of ferrocenyl-contg. naphthalenediimides as intercalators for DNA detection)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2001:46009 CAPLUS  
 DN 134:111209  
 TI Method for detecting/quantitating sample nucleic acid fragment by scanning  
 electrochemical microscopy  
 IN Makino, Yasuhiko; Abe, Yoshihiko; Ogawa, Masashi; Takenaka, Shigeo;  
 Yamashita, Kenichi; Takagi, Makoto  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF  
 DT Patent

V. Balasubramanian

LA Japanese

FAN.CNT 1

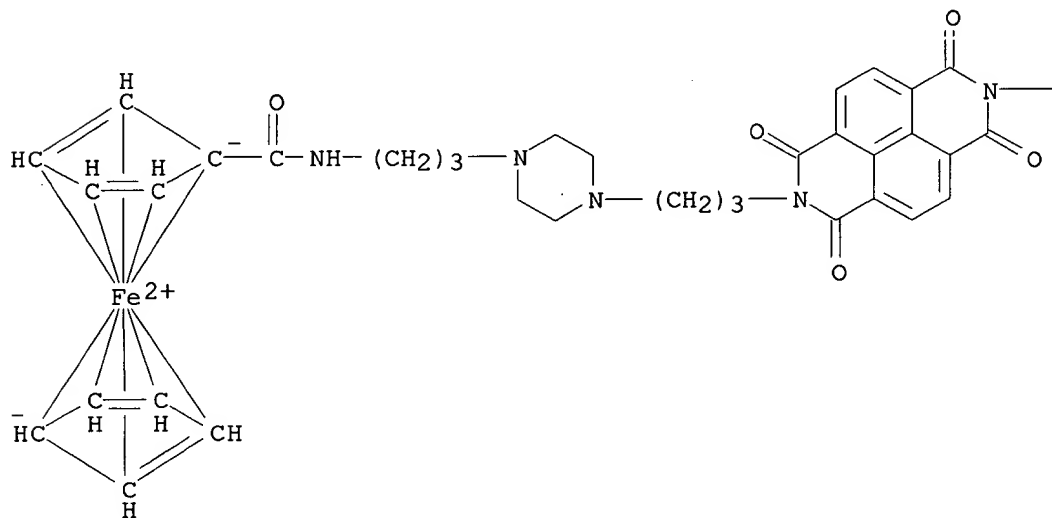
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001013103	A2	20010119	JP 2000-130091	20000428
PRAI	JP 1999-121563	A	19990428		
IT	<b>209473-66-5</b>				

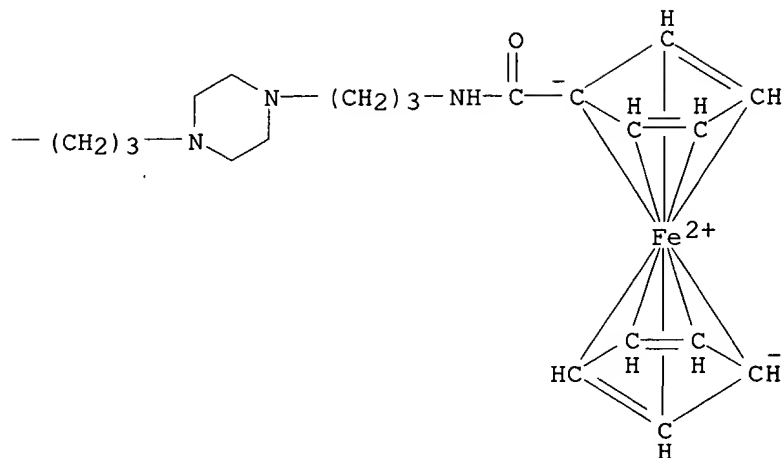
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(method for detecting/quantitating sample nucleic acid fragment by  
scanning electrochem. microscopy)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-  
tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

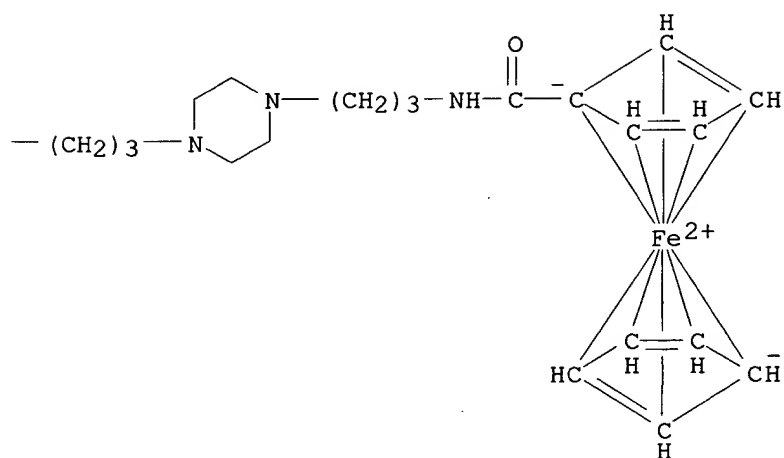
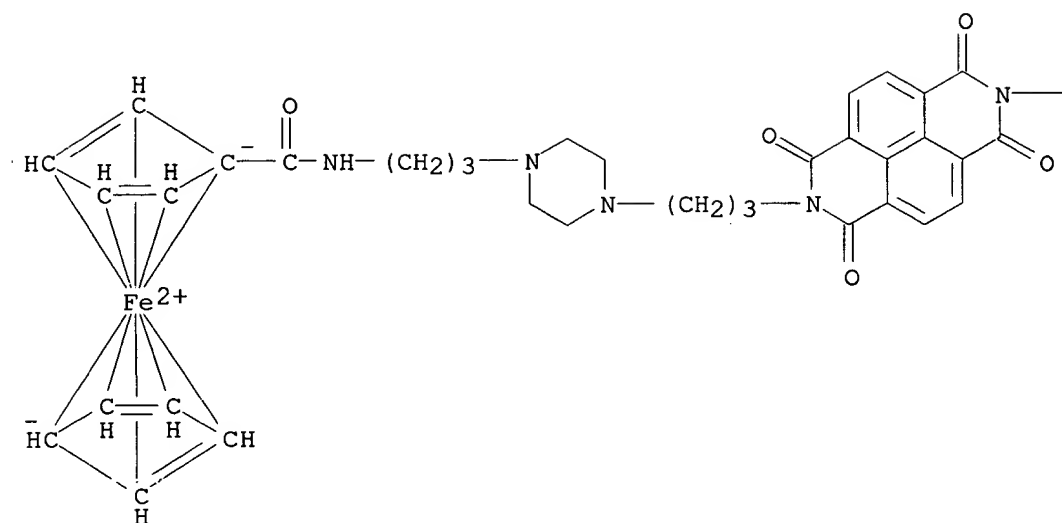
PAGE 1-A





L5 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:651064 CAPLUS  
 DN 134:158179  
 TI Electrochemical detection of base pair mutation  
 AU Yamashita, Kenichi; Takagi, Makoto; Kondo, Hiroki; Takenaka, Shigeori  
 CS Department of Chemical Systems and Engineering, Kyushu University,  
 Fukuoka, 812-8581, Japan  
 SO Chemistry Letters (2000), (9), 1038-1039  
 CODEN: CMLTAG; ISSN: 0366-7022  
 PB Chemical Society of Japan  
 DT Journal  
 LA English  
 IT **209473-66-5**  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (as oligonucleotide intercalator; electrochem. detection of base pair  
 mutation)  
 RN 209473-66-5 CAPLUS  
 CN Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-  
 tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
 piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)





RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:395927 CAPLUS  
DN 133:171933  
TI Synthesis and antitumor activity of some indeno[1,2-b]quinoline-based bis  
carboxamides  
AU Deady, L. W.; Desneves, J.; Kaye, A. J.; Finlay, G. J.; Baguley, B. C.;  
Denny, W. A.  
CS Department of Chemistry, La Trobe University, Bundoora, 3083, Australia  
SO Bioorganic & Medicinal Chemistry (2000), 8(5), 977-984

V. Balasubramanian

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DT Journal

LA English

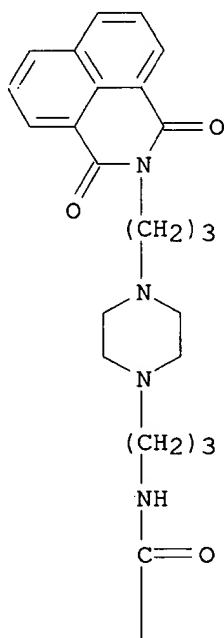
IT 288268-89-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(synthesis and antitumor activity of indeno[1,2-b]quinoline-based bis carboxamides)

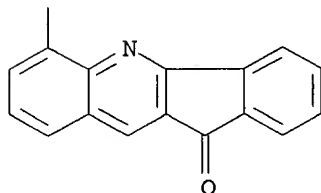
RN 288268-89-3 CAPLUS

CN 11H-Indeno[1,2-b]quinoline-6-carboxamide, N-[3-[4-[3-(1,3-dioxo-1H-benz[de]isoquinolin-2(3H)-yl)propyl]-1-piperazinyl]propyl]-11-oxo- (9CI)  
(CA INDEX NAME)

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RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

09/927,852

V. Balasubramanian

L5 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:356683 CAPLUS  
DN 133:1473  
TI Amplified-type DNA detection method using intercalator  
IN Takenaka, Shigeori; Takagi, Makoto  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

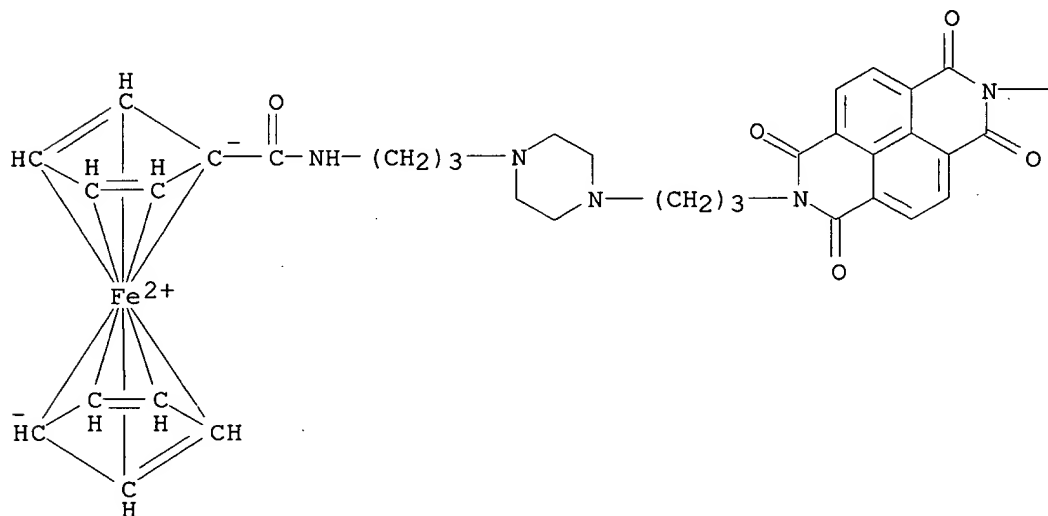
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000146894	A2	20000526	JP 1998-328872	19981104
PRAI	JP 1998-328872		19981104		
IT	<b>209473-66-5</b>				

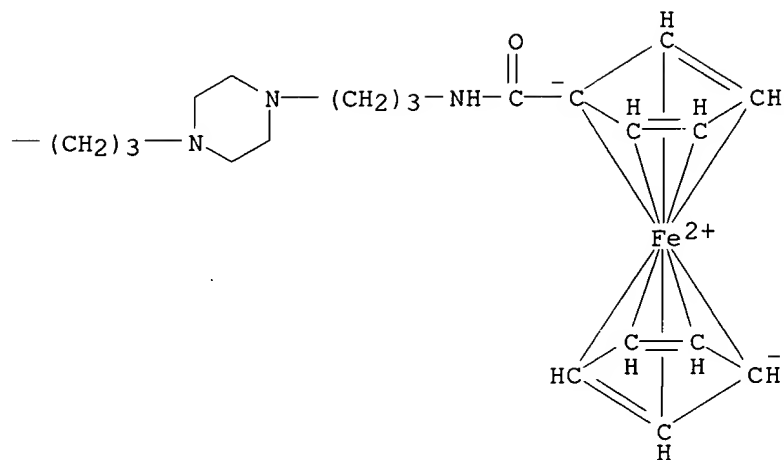
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(amplified-type DNA detection method using intercalator)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A





L5 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:294249 CAPLUS

DN 132:318584

TI An electrochemical method for detecting DNA using DNA sensor and intercalator

IN Takenaka, Shigeo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

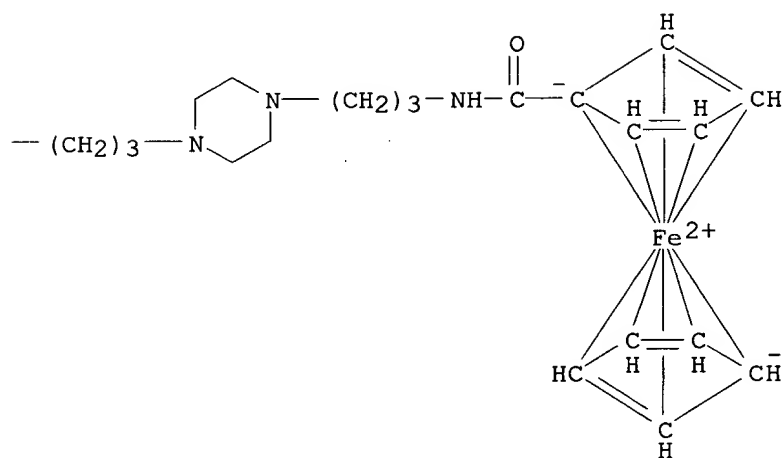
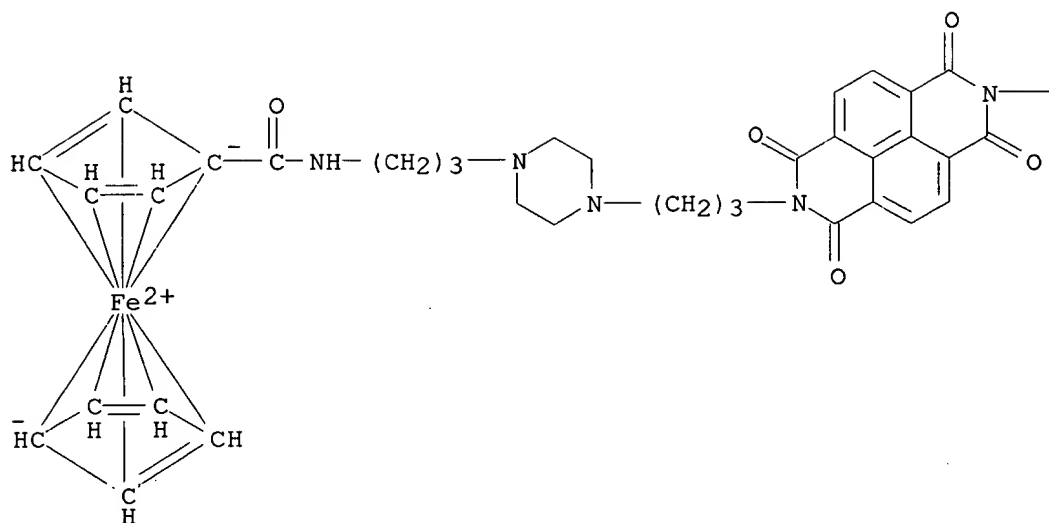
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000125865	A2	20000509	JP 1998-324474	19981028
PRAI	JP 1998-324474		19981028		

IT 209473-66-5

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(method for detecting DNA using DNA sensor)

RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:114705 CAPLUS  
 DN 132:305305  
 TI DNA Sensing on a DNA Probe-Modified Electrode Using Ferrocenylnaphthalene  
 Diimide as the Electrochemically Active Ligand  
 AU Takenaka, Shigeori; Yamashita, Kenichi; Takagi, Makoto; Uto, Yoshihiro;  
 Kondo, Hiroki  
 CS Department of Chemical Systems and Engineering, Kyushu University,  
 Fukuoka, 812-8581, Japan  
 SO Analytical Chemistry (2000), 72(6), 1334-1341  
 CODEN: ANCHAM; ISSN: 0003-2700



V. Balasubramanian

PB American Chemical Society

DT Journal

LA English

IT 209473-66-5P

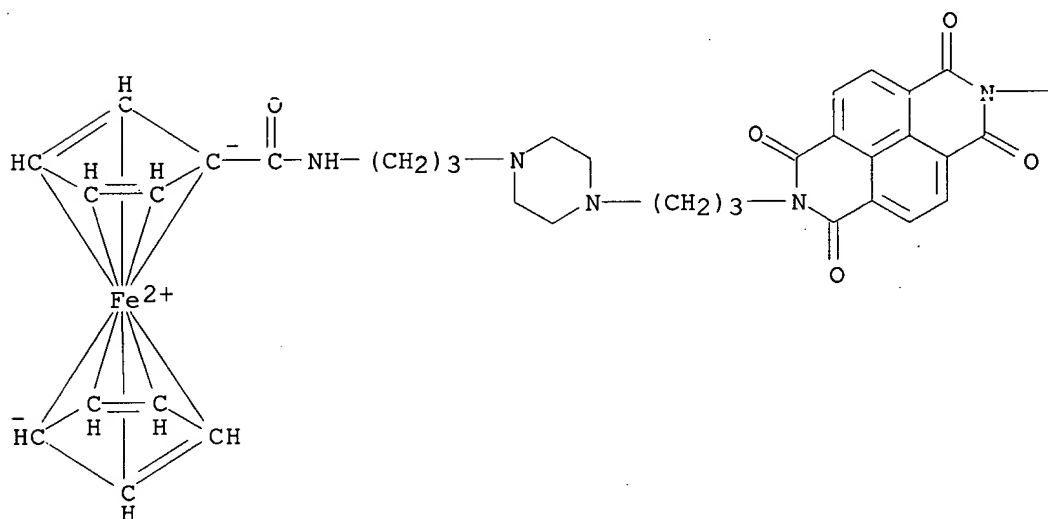
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(DNA sensing on a DNA probe-modified electrode using ferrocenylnaphthalene diimide as electrochem. active ligand)

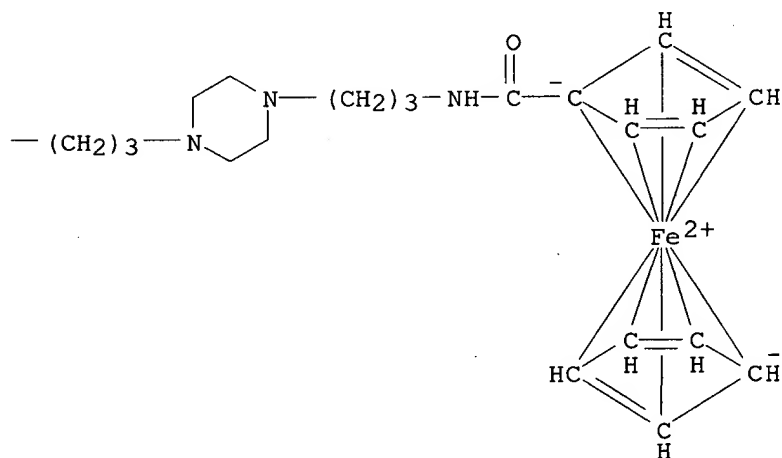
RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

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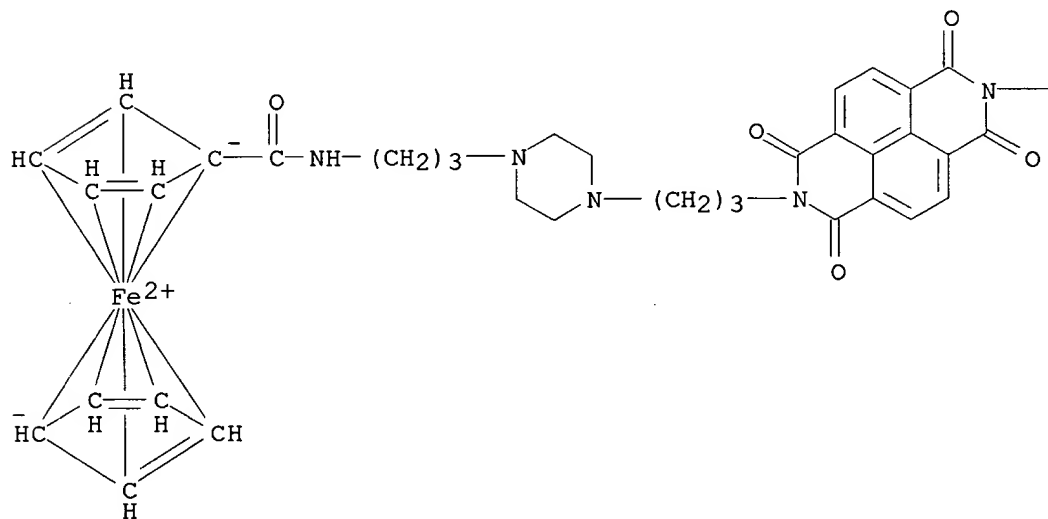
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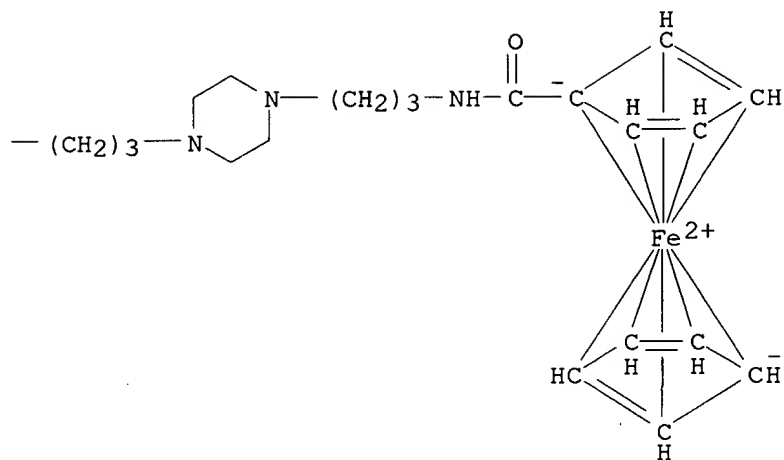


RE.CNT 26      THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5    ANSWER 19 OF 23    CAPLUS    COPYRIGHT 2003 ACS on STN  
AN    1998:792277    CAPLUS  
DN    130:150525  
TI    Electrochemistry of ferrocenyl naphthalene diimide derivative and its  
      behavior on hairpin DNA immobilized electrode  
AU    Takenaka, Shigeori; Yamashita, Kenichi; Uto, Yoshihiro; Takagi, Makoto;  
      Kondo, Hiroki  
CS    Department of Chemical Systems and Engineering, Kyushu University,  
      Fukuoka, 812-8581, Japan  
SO    Denki Kagaku oyobi Kogyo Butsuri Kagaku (1998), 66(12), 1329-1334  
      CODEN: DKOKAZ; ISSN: 0366-9297  
PB    Denki Kagakkai  
DT    Journal  
LA    Japanese  
IT    **209473-66-5 220164-06-7**  
      RL: PRP (Properties)  
      (electrochem. of ferrocenyl naphthalene diimide deriv. and its behavior  
      on hairpin DNA immobilized electrode)  
RN    209473-66-5    CAPLUS  
CN    Ferrocene, 1,1''-[(1,3,6,8-tetrahydro-1,3,6,8-  
      tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
      piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

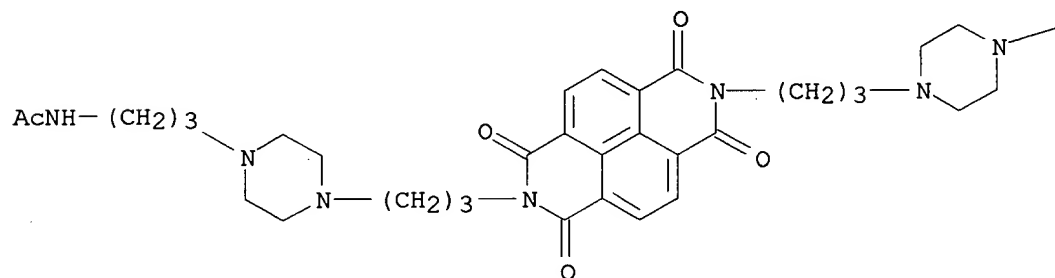
PAGE 1-A





RN 220164-06-7 CAPLUS

CN Acetamide, N,N'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[1,3,6,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyl)]bis- (9CI) (CA INDEX NAME)



— (CH<sub>2</sub>)<sub>3</sub>—NHAc

L5 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:654603 CAPLUS

DN 130:35241

TI Enhanced electron transfer from glucose oxidase to DNA-immobilized electrode aided by ferrocenyl naphthalene diimide, a threading intercalator

AU Takenaka, Shigeori; Uto, Yoshihiro; Takagi, Makoto; Kondo, Hiroki  
CS Dep. of Chemical Systems and Engineering, Kyushu University, Fukuoka, 812-8581, Peop. Rep. China

SO Chemistry Letters (1998), (10), 989-990  
CODEN: CMLTAG; ISSN: 0366-7022

PB Chemical Society of Japan



V. Balasubramanian

DT Journal

LA English

IT 209473-66-5

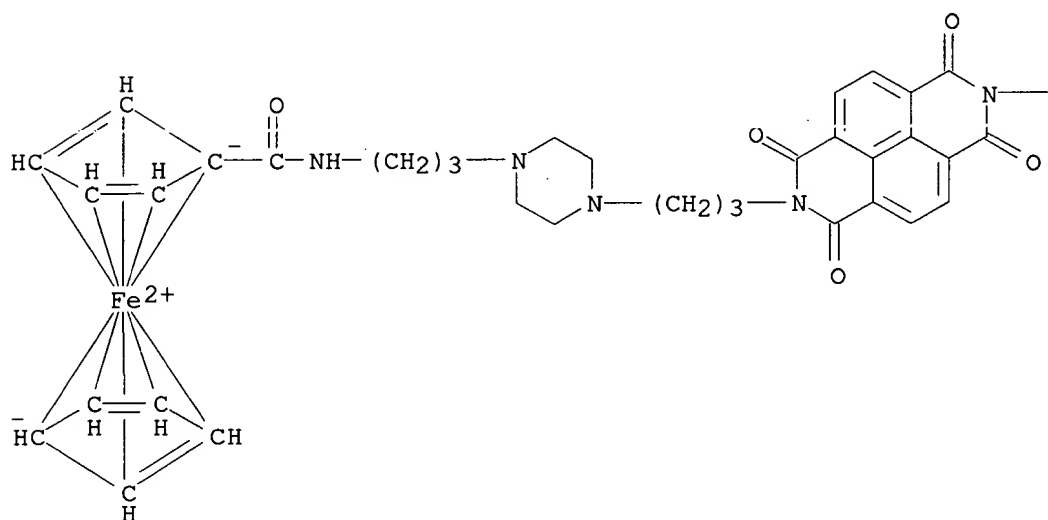
RL: DEV (Device component use); USES (Uses)

(enhanced electron transfer from glucose oxidase to DNA-immobilized electrode aided by ferrocenyl naphthalene diimide, a threading intercalator)

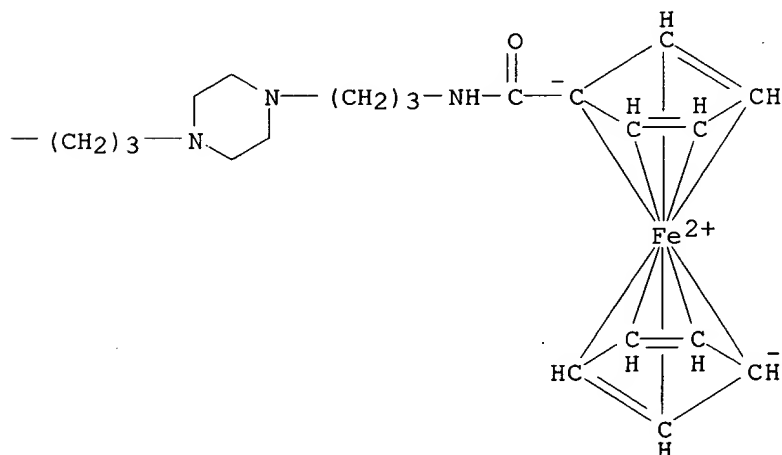
RN 209473-66-5 CAPLUS

CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

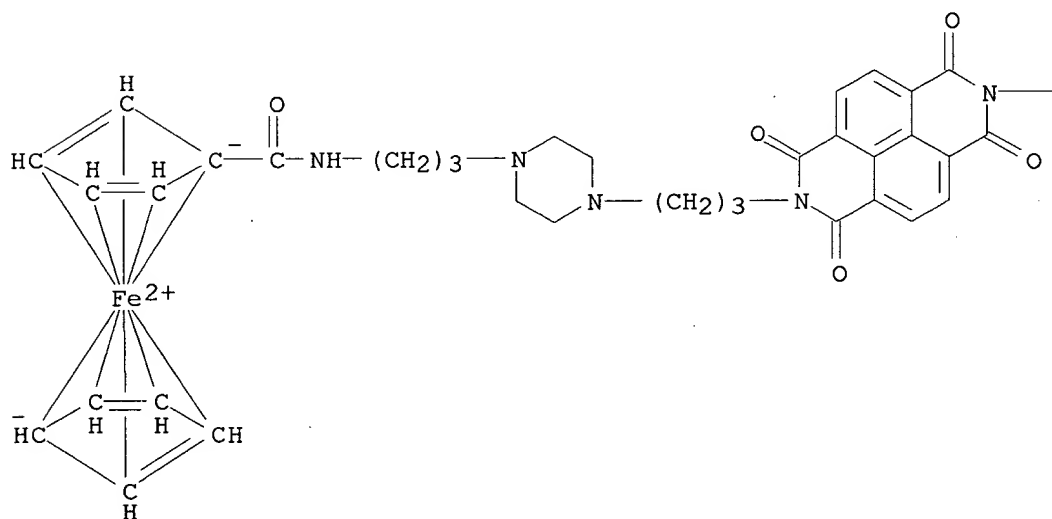


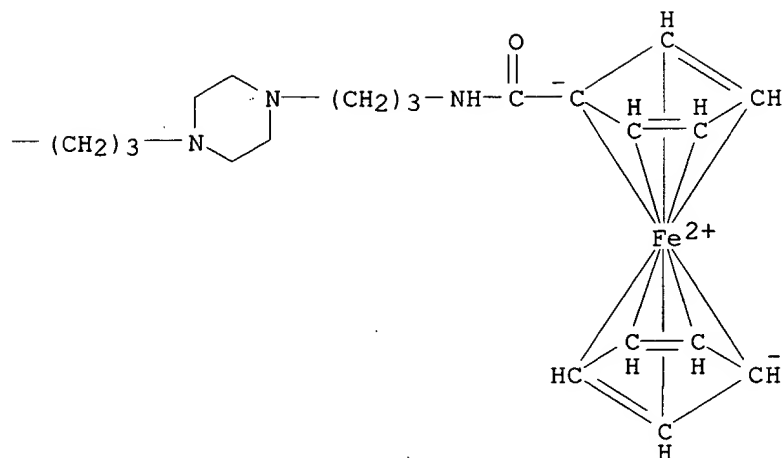
V. Balasubramanian

RE.CNT 5      THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5    ANSWER 21 OF 23    CAPLUS    COPYRIGHT 2003 ACS on STN  
AN    1998:589822    CAPLUS  
DN    129:299720  
TI    Construction of a polyferrocene array with ferrocenyl naphthalene diimide  
      intercalated to the double stranded DNA  
AU    Takenaka, Shigeori; Takagi, Makoto; Uto, Yoshihiro; Kondo, Hiroki  
CS    Department of Chemical Systems and Engineering, Kyushu University,  
      Fukuoka, 812-8581, Japan  
SO    Nucleic Acids Symposium Series (1998), 39, 107-108  
      CODEN: NACSD8; ISSN: 0261-3166  
PB    Oxford University Press  
DT    Journal  
LA    English  
IT    **209473-66-5**  
      RL: RCT (Reactant); RACT (Reactant or reagent)  
      (construction of a polyferrocene array with ferrocenyl naphthalene  
      diimide intercalated to double stranded DNA)  
RN    209473-66-5    CAPLUS  
CN    Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-  
      tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-  
      piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)

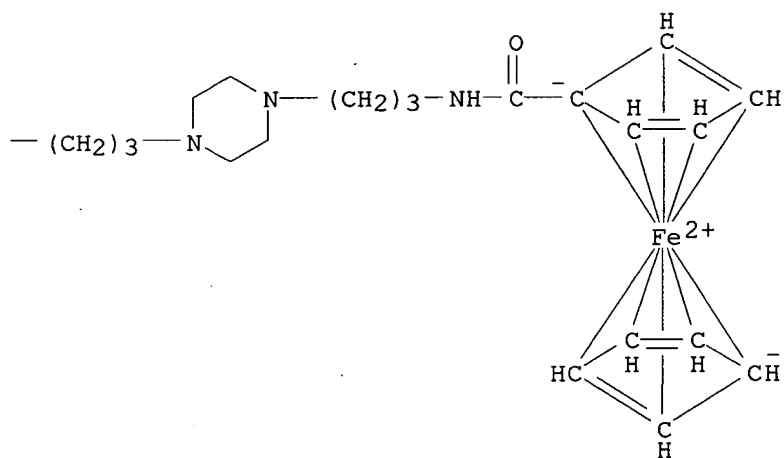
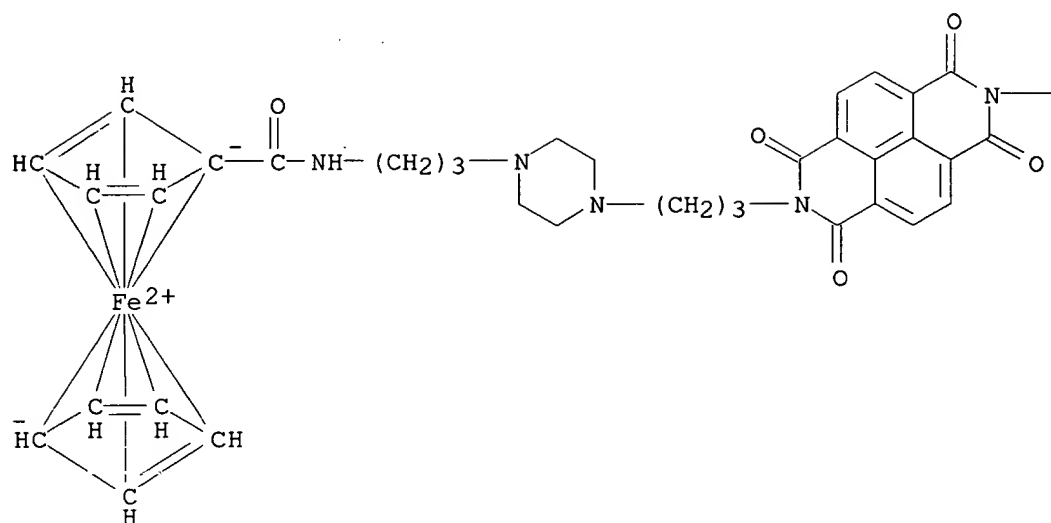
PAGE 1-A





RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:342144 CAPLUS  
DN 129:78794  
TI Electrochemically active threading intercalator with high double stranded DNA selectivity  
AU Takenaka, Shigeori; Uto, Yoshihiro; Saita, Hideki; Yokoyama, Makoto; Kondo, Hiroki; Wilson, W. David  
CS Department of Chemical Systems and Engineering, Kyushu University, Fukuoka, 812-8581, Japan  
SO Chemical Communications (Cambridge) (1998), (10), 1111-1112  
CODEN: CHCOFS; ISSN: 1359-7345  
PB Royal Society of Chemistry  
DT Journal  
LA English  
IT **209473-66-5**  
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (electrochem. active threading intercalator with high double stranded DNA selectivity)  
RN 209473-66-5 CAPLUS  
CN Ferrocene, 1,1'-[(1,3,6,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2,7-diyl)bis(3,1-propanediyl-4,1-piperazinediyl-3,1-propanediyliminocarbonyl)]bis- (9CI) (CA INDEX NAME)



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1990:499470 CAPLUS  
DN 113:99470  
TI Pigment preparations resisting flocculation  
IN Dietz, Erwin; Schiessler, Siegfried; Urban, Manfred  
PA Hoechst A.-G., Germany  
SO Ger. Offen., 20 pp.  
CODEN: GWXXBX  
DT Patent

V. Balasubramanian

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3931052	A1	19900322	DE 1989-3931052	19890916
	EP 360182	A2	19900328	EP 1989-117189	19890916
	EP 360182	A3	19910911		
	EP 360182	B1	19940119		
	R: CH, DE, ES, FR, GB, IT, LI				
	ES 2061856	T3	19941216	ES 1989-117189	19890916
	JP 02115278	A2	19900427	JP 1989-242370	19890920
	US 5071482	A	19911210	US 1989-410159	19890920
	CA 1337143	A1	19951003	CA 1989-612048	19890920

PRAI DE 1988-3832065 19880921  
DE 1989-3905931 19890225

OS MARPAT 113:99470

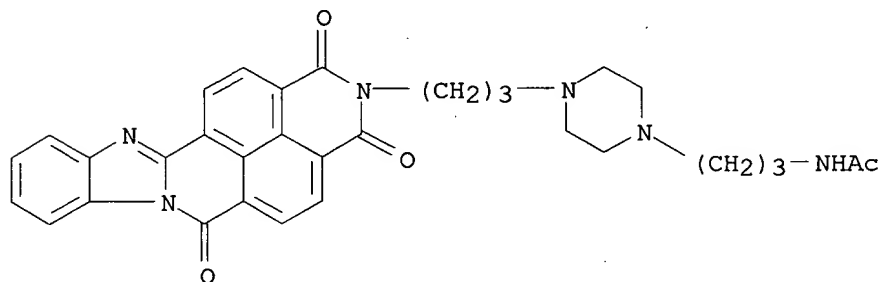
IT **129051-97-4**

RL: USES (Uses)

(in flocculation-resistant pigment prepns.)

RN 129051-97-4 CAPLUS

CN Acetamide, N-[3-[4-[3-(3,6-dihydro-1,3,6-trioxobenzimidazo[2,1-b]benzo[1mn][3,8]phenanthrolin-2(1H)-yl)propyl]-1-piperazinyl]propyl]-  
(9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

72.38

220.74

STN INTERNATIONAL LOGOFF AT 16:55:20 ON 28 AUG 2003

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PASSWORD:

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NEWS	4	Feb 24	TEMA now available on STN
NEWS	5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	6	Feb 26	PCTFULL now contains images
NEWS	7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	8	Mar 24	PATDPAFULL now available on STN
NEWS	9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	10	Apr 11	Display formats in DGENE enhanced
NEWS	11	Apr 14	MEDLINE Reload
NEWS	12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	13	AUG 22	Indexing from 1927 to 1936 added to records in CA/CAPLUS
NEWS	14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	15	Apr 28	RDISCLOSURE now available on STN
NEWS	16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS	19	May 19	Simultaneous left and right truncation added to WSCA
NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25	HSDB has been reloaded
NEWS	25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS	26	Jul 21	Identification of STN records implemented
NEWS	27	Jul 21	Polymer class term count added to REGISTRY
NEWS	28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	36	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	37	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right

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#### Truncation

NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE 'REGISTRY' ENTERED AT 17:25:08 ON 28 AUG 2003

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DICTIONARY FILE UPDATES: 27 AUG 2003 HIGHEST RN 574700-05-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:

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ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\STNEXP4\QUERIES\099278523.str

09/927,852

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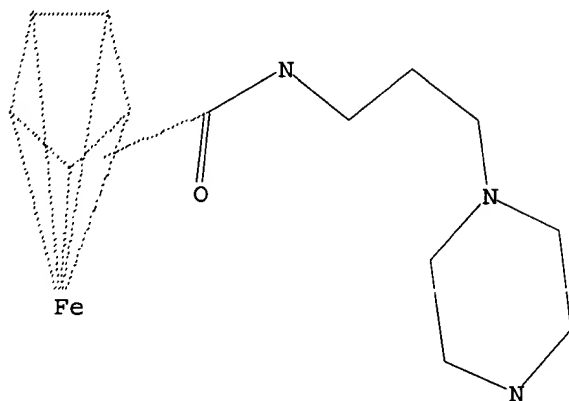
=> que L1

L2 QUE L1

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 17:25:38 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2 TO 124

PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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STN INTERNATIONAL LOGOFF AT 17:25:54 ON 28 AUG 2003